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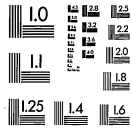

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Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

PART IV
(1899–1910)

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START

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Notebook, N-07-06-19

6343 Dup 6259
21% KOH, 3 grms Chloride of Lithium
Each cell
6344
6345 tight rings

6346 Dup 6259
15% NaOH, 3 grms Chloride Lithium
Each cell
6347
6348 tight rings

6349 Dup 6259
21% KOH, 3 grms Carbonate Potash
Each cell
6350
6351 tight rings

6352 Dup 6259
15% NaOH, 3 gms Carbonate Soda
2 each ccl

6353
6354 tight rings

6355 Dup 6259
21% KOH, 3 gms Carbonate Potash
2 gms LiOH, 2 each ccl

6356 tight rings
6357

6358 Dup 6259
15% NaOH, 3 gms Carbonate Soda
2 gms LiOH,

6359 tight rings
6360

6361 Dup 6259
21% KOH, 3 gms Chloride Zinc
/Each cell
6362
6363 tight ringet

6364 Dup 6259
15% NaOH, 3 gms Chloride Zinc
/each cell
6365 tight ringe
6366

6367 Dup 6259
21% KOH 3 gms Manganous
Chloride Each cell

6368 done
6369

6370 Dup 6259
15% NaOH, 3 grms Manganous
Chloride Each cccc —

6371
6372 —

Cancelled

6373 Dup 6259 —
21% KOH, 3 grms Nitrate Lead
Each cccc —
6374 —
6375

6376 Dup 6259
15% NaOH, 3 grms Nitrate Lead
Each cccc —

6377
6378 —

6379 21Hole 005 1/2 spiral No 2
green 12 flake 24 green
21% RETT,
Wet Spring #70 Filter

Wt 8.224

6380 Wt 8.024

6381 Wt 8.093

3)24341
8114
666
48684
4684
4684
4684
34039 24

5.4

66.6% green

6382

Dup 6379
but 14 flakes 24 ro2 gross
21.% KOH

Hot Springs. #70 Flakes tight rings 0.025 smaller
Cracked ends Wt 8.261

6383 " " Wt 8.293

6384 " " Wt 8.220

3 / 24774
8258

5.21 - 63.1% gross

38 / 1129 / 2258 / 1 — 2c — 63

4958 / 6336 / 7241 / 7254 / 7274 / 7954 / 10775 / 5.21

6385 —

21 Hole 005 1½ spical —
24 oz 2 gr con 10 flake —
Not Spring #7 Flake
6385 is dipped 4 minutes in strongest formate of Bismuth.

6386 is dipped in Bi Nitrate chloride and in Nitrate —

6387 is dipped in acetate Bismuth

6385	wt	8.167
6386	wt	8.093
6387	wt.	8.127

Original wt before dipping

3)24387
8129
7
5.69 5.69003

6388

21 Hole 005 $1\frac{1}{2}$ spiral
24 gr 10 flakes
Green under Bell jar one week
with H_2O –
Not Spring #78 Flakes, singe 0025 Duplex
wt 8.203

6389 wt 8.257

6390 wt 8.377

$$3\overline{)24837}$$
$$8279$$
$$5.79553$$

6391 –

21 Hole 005 – 1½ spiral 10 of 24 x 10 2 gram

12% NaOH.

3 grams Li OH each cell –

Wt Spring #70 F labee
bracket end Wt 7.992

6392 Wt 7.800

6393 Wt 7.914

$$\begin{array}{r} 3\overline{)23.706} \\ \underline{9.902} \\ 7 \\ \hline 5.5314 \end{array}$$

5.53

6418 21 Hole 005 1½ spend -,

Berge green #097 -
used the slide set for 24 + 10 -
don't change slides —
21% —

6419 cut

6420 cut
cut

6394 —

Dup 6391

Except 10% NaOH.

3 gms LiOH each cell —

Not Sparking # 70 Filaper COP 7.992

6395 — COP 8.044

6396 COP 8.075

3)27.111

8037

7

5.6259

5.62

6397

Dup 6391

Except 8% NaOH,
saturated with LiOH,

Not Spanning #76 I lake
bracked end Wt 8.002

6398 Wt 8.087

6399 Wt 8.045

$3\overline{)24.134}$
8.045
7
5.6315

5.63

6400

Dup 6391

Except 5% NaOH

saturated with LiOH

Hot Spring #703 Lake

Lockhard and Wolf 8.010

6401 Wolf 7.914

6402 Wolf 7.952

$$3\overline{)23.876}$$

7959

$$5.5713$$

557

6403
Dup 6391

Except 3% NaOH,
saturated with LiOH,
Mot Spring #70 Flake

Wt 7.881

6404 Wt 7.943

6405 Wt 7.963

$3\overline{)23787}$
7929

5.503

5.55

6406 —
Dep 8391
Except 13% NaOH.
5 grms Thallious Hydroxide each cell.
Light rings .0025 smaller
Not forming #70 Sieve
Wt 8.014

6407 Wt 7.974

6408 Cracked and Wt 8.026

3 | 24.014
8.005
5.603

5.60

6409

Dup 6391

Except 13% NaOH,
2 grms thallious hydroxide each cell

Hot Spring #7 of Lake
Lightridge Wt 8.029

6410 Wt 8.087

6411 Wt 8.025

$3\overline{)24.141}$
8.047
$5.63\overline{29}$

5.163

6412

Dup 6391

Except 21% KOH,

2 grms Thallious Hydroxide enclosed

Wet Stirring #70 Flakes

Eight things Wt 7.988

6413 bracket end Wt 8.014

6414 " " Wt 8.002

$$3\overline{)27004}$$
$$8001$$
$$5.6007$$

5.60

6415 Dup 6391

Except Saturated Solution of LiOH in Water only

1st Spring #703 large Light ring Wt 7.976

6416 Inside and Wt 7.862

6417 " " Wt 7.900

$$3\overline{)23.738}$$
$$7.913$$
$$5.539$$

5.53

6418

21 Hole 005 — 1½ spiral 1 flake
24 Berger No 97 green with
Bi — Don't change adjustment
of slide — 21% KOH,
Wet Sporung #70 Q lake
Tight rings broken end 7.331

6419 wt 7.370

6420 wt 7.492

$$3\overline{)22.193}$$
$$7.398$$
$$5.1786$$

5.17 - guess

6421
Lithofa .005 1½ spiral
7.5 flake 18 no 2 green

21% KOH,
Not Spring #7 Flake Tight rings .0025 smaller.
Cracked end Wt 7.951

6422 Wt 8.047

6423 " " Wt 8.160

$$\begin{array}{r} 3\,\overline{)\,24.15\,8} \\ 8053 \\ \hline 5.6371 \end{array}$$

5.63

6424
Dup of 6421
Except 5 flake 12 green
NO 2
Wt Spring #70 Flake Tight ridge .0025 smaller.
Wt 8.278

6425 — Wt 8.249

6426 broken end Wt 8.216

3)24743
8247
5.7729

6427 21 Hale 005 — 1½ special
10 flake 24 grain Bergerac
98 - Dark change no adjustment
of slides — 21% Nott.
Not Spring #707 large
Sight rings Wt 7.746

6428 Wt 7.681

6429 Wt 7.639
23.066
3) 7688
5.3812

5.38 grains

6430
Litoria ooo 1½ spiral Burrs not
ground down so much Frid acc to
meter - 10 f 24 dro 2 green
No zyfat —

Wt

6431 Wt

6432 Wt

6433

Dup 6430

Except Guro ground only a little

no explst —

Cat

6434 Cat

6435 — Cat

6436
Dup 6430

Burns not ground at all —
no Eyfet.

Wf

6437 Wf

6438 Wf

6439 21 Hole 005 1/2 spiral.
RA 999 - 90 N(OH)2 10% Bi_2O_3
Thru 20 mesh fines acc in
10 flake 24 grain dont change
appearance of slides -
21% KOH.
Not spinning #70 flakes
blackened end Cot 7.697

6440 " " Cot 7.741

6441 " " Cot 7.677

Tightings .0025 smaller.

3 | 2311 b
7703
5,393 7/3

5.39 guess

6442 –

21 Hole .005 $1\frac{1}{2}$ spiral $3\frac{1}{2}$

4 Rings –

10 flake 24 green Berge No. 99

Bi Ni – Bi 10% – 21% KOH

Dont change slide adjustment.

Turn 20 final in –

Not Spring #703 Flat ring .0025 smaller

lot 6.551

6443 lot 6.381

6444 lot 6.533

$$3 \overline{)19.465}$$
$$6488$$

6445 Drop No 6442—
But Barge No 96—

1st Spinning #70 Tel Lee, ring .0025 smaller.

Cot 7.497

6446 Cot 7.425

6447 Bracked end Cot 7.441

$$3\overline{)22.3\ 63}$$
$$7.454$$

Hardy

6448 21 Hole $1\frac{1}{2}$ spiral 10 of 24 grm NO2
gremsoaked in water 24 hours then
dried in the air - not on hot plate.
21% KOH.

Wt

" 6449 Wt

6450 Wt

6451 Dup 6448

Except 21% KOH.
~~Substituted~~ with LiOH.
Wt

6452 Wt

6453 Wt

Cancelled

6454 - Dup 6448.

Except 15% Wash,
Dalmatical L. Oil.

Lot

6455 Lot

6456 Lot

Cancelled

6457
to
6462 } Edison Iron Export

6463. 21 Holes 5 1½ spiral 3½ wt
No 2 green
33% KOH.
Saturated with LiOH.
Wet Spring #78 Filled, rings .025 smaller.
Wt 7.468

6464 Wt 7.438

6465 Tracked end. Wt 7.471

6466 Dup 6463

27 % KOH.
Saturated with LiOH.
Wet Spring #763 later, ing 0.0025 smaller.
bracket end Wt 7.381

6467 " " Wt 7.516

6468 Wt 7.494

~~6460~~ Sup 6463.

~~21%~~

6470

6471

6472 - Dup 6463

15% KOH.

Saturated w/ CH4.

Not Spring #78 Flake, image .0025 Smaller.

Broken end. Not 7.449

6473 " " Not 7.505

6474 Not 7.436

6475 Dup 6463

11% KOH, Saturated 1.08H.

Not Spring #78 Lake

COT 7.534

6476 COT 7.540

6477 Broken end COT 7.473

6478 Dup 6463

27% NaOH,
Saturated KOH,

Wt

6479 Wt

6480 - Wt

Cancelled

6481 Dup 6463.

21% NaOH.

Saturated L. OH.

lot

6482 lot

6483 lot

Cancelled

6484 – 6485 6486 out

6487 - Dup 6463

9% NaOH, Saturated KOH,

wt

6488 wt

6489 Cancelled

6490. Dup 6205 -

1st position to Left 10 from Zero

Not Spring # 76 Flaber rings .0025 smaller
bracket end Wt 7.493

6491 Wt 7.516

6492 " " Wt 7.468

$$3\overline{)22477}$$
$$7492$$
$$5,2444$$

6493 Dup 6205

2nd Section from left

Nut Spring #78 Filler, ring of .0025 smaller.

Lot 7.468

6494 Cracked and Lot 7.548

6495 " " Lot 7.531

6496 Dup 6205 –

3rd position from left.

Wet Spring #78 Flake, rim zone .0025 smaller.

Overlaid and. LOT 7.481

6497 " " LOT 7.553

6498 LOT 7.412

6499 Dup 6205

4th position from left,
Nat Spring #70 Flebe, ring .0025 smaller.

LOT 7.488

6500 LOT 7.424

6501 LOT 7.428

6502 Dup 6205

5th pouch on front left,

Hit Spring #78 Flake, single .0275 pellets. Wt 7.373

6503 Wt 7.409

6504 — Wt 7.319

For Domenkoff –

6505
21 Hole .005 1½ spiral. 3½ cut.
10 flake 24 fresh. 21% KOH. No 2 grass
2 irons – ironed chipped discharged & Reversed
Twice, before using in cells –

6506

6507

Journal 88

6508 Dup 6505

Except 8 flake 24 mm 2 green

21% ROH,

6509 Left

6510 Left

Left

Cancelled

Jamaica 88

6511 Dup 6505

Except 7 flake 24 No 2 grson
21 %

6512 Lot

6513 Lot

Lot

Cancelled

Domorhoff

6514 Dup 6505

10 flake 24 green No 2
21% Saturated $LiOH$,

Wet

6515

Cutlet

6516 Wt

Donnerhoff

6517 Dup 6505

8 flake 24 green

21% Saturated L. Oil.

Cat

6518 Cancelled

6519 Cat

Somerhoff

6520. Dup 6505

7 flake 24 green KOZ -
21 KOH, Saturated 1.0 KH,

lot

6521 lot

6522 lot

Cancelled

6523

21 Hole 005 1½ Spiral 4 lb wt

10 Ni flake 24 gram,

15% NaOH. 3 gram diOH, each cell

wt

6524 wt

6525 — wt

Cancel

6526 - Dup 6523

15% NaOH. 4 grms ~~Lyoff~~
Each cell.

Lot [illegible]

6527 Lost

6528 Lot [illegible]

6529 - Dup 6523.
15% NaOH. 5 grms SiO2
Each cell
Lot 1
Lot 2

6530 Lot 1

6531 Lot

6532 Dup 6523

15% NaOH. 6 gms digest.

Each cell -

Clear

6533 Wt

6534 Wt

6535 Dup 6523

15% NaOH. 7 grms NaOH.
Each cook

6536 Clot

6537 Lot

6538 Dup 6523

13% NaOH, 7 gms LiOH

Zinch cell -

Cycled

6539 cut

6540 cut

6541 Dup 6523

11% NaOH, 7 gas 2.0H

Each cell

Cover

6542 Wt

6543 Wt

6544 Dup 6524

.15% NaOH 4 grms ~~of~~ Carbon each cell —

Reverse cell twice during the 50 Hot Runs

Wt

6545 Wt

6546 Wt

6547 Dup 6524

15% NaOH, 7 grams ~~LiOH~~

Each cell — Covered

Reverse twice during the 50

Hot runs —

Wt

6548 Wt

6549 — Wt

Mark How Grows were treated before pulling in Calb. alg + Resin or alg's Reversed + alg + Reversed algin

6550 Dup 6523

21% KOH, 2 grms Lot each cell –

RUN COLD

Wet

Cell

6551 Cell Wet

6552 Wet

6553
Dup 6523.
21% KOH. 4 grms of ~~OH~~ ~~[illegible]~~ cool
RUN COLD

Cooled

6554 Wt
6555 Wt

6556 Dup 6523

21% KOH. Saturated with KOH,

RUN Color

Color

6557 Lot

6558 Lot

6559 Dup 6523 -

2% NaOH, 2 grms di OH Saccharell.

RUN COLD

wt

6560 wt

6561 wt

6562 Dup 65 23

21% Na Off. 4 grms 2 Off each

Cell —

RUN COL II

Cathaceae

6563 lot

6564 lot

6565 Dup 6573

21% NaOH, Saturated LiOH,

RUN COL II

Cancelled

Not

6566 Not

6567 Not

6568 Dup 6523

15% NaOH, 2 grms. in 10 ml each cell

RUN COLD

6569 lost

6570 lost

Cancelled

6571 Dup 6573

15% NaOH. 4 grms LiOH Each cell.

RUN COL II

Not Corrected

6572 Not

6573 Not

6574 Dup. 6523

15% NaOH, saturated with O_2, RUN COL II

Wt

6575 — Wt Cancelled

6576 - Wt

6577 Dup 6523

21% KOH, 5 grms Li Cl 5 grms Bromide Sodium
Each cell —

Voltage

6578 Cancel lot

6579 lot

Holding: Need not weigh tubes

6580 Tubes dup of 6523

Assembled with pure nickel strips

6580 has 21% KOH, 1 gram LiOH.
6581 " " 2 gram LiOH.
6582 " " Saturated with LiOH.
6583 " 33% KOH alone
6584 21% KOH alone
6585 15% NaOH alone

Trans benzoyl Chgd-dicolgr Ramond

6586 Dup of 6523 Reg Trans-chgd dicolg

21% KOH, 5 grms Lithia Chloride Each cell

Wt

6587 Wt

~~6588~~ Wt

Cancelled

6589 Dup 6523 2 grms

15% NaOH 5 grms Lithia Chloride Excess all

lost

6590 Cancelled

6591 lost

6592

21% KOH, saturated with Lithia Carbonate

Wt Cancelled

6593 Wt

6594 Wt

6595 Dup 6523
15% NaOH, saturated with
Lithia Carbonate

Wt Cancelled

6596 Wt
6597 Wt

6598

3 Reg flat pockets, 2 irons —

21% 2 grms Lift Each cell —

6599
6600

3.2 grms —

Calliper them —

6598	center	90	side	93	side	96
99	"	92	"	94	"	96
6600	"	89	"	96	"	97

Holdup

6601

21 Hole 605 1½ Spiral 3½ lbs

Regular graphite nickel mix –

21 w/o 2 grms Li off Each cell

Wt

6602 Wt

6603 Wt

Hold up

6604 Dup 6523

Best tube to Gz put into a grid which has never been Nickel plated — See Rogers & get them — Be sure

Then dip in strong hydrochloric & clean them, then put tube in & put right in KOH,

21%

Wt

6605 — Wt

6606 — Wt

6607
21 Hydroxy 1½ special 3½ cut No 2 grain
21% KOH 2 grm of KOH each cell —
Tube to be connected by wire to the
iron Can so it will always be in contact
during endurance run
Dr Elliot about it

6608 Not

6609 Not

Cancelled

6610 Dup 6607

21% KOH – Iron Electrode
Connected By a wire to the
Can + Kept Connected during
the Endurance run

Lot

6611 Lot

6612 Lot

Connected

6613 — Dup 6607
33⅓ ROH, Inoculated to
the Can —

Lot Cancelled

6614 Lot
6615 Lot

6616 Dup 6607
83% NOH Tubs Cancelled to
the Com by wire

Wet Cancelled

6617 Wet

6618 Wet

6619 Dup 6607

2½% KOH 2 grms. of each cell.
Cell Reversed once week to totally
discharge & to have 1500 m.a.h
amp hours in the opposite
direction after totally
discharged

Not Cancelled

6620 Not

6621 Not

6622 Dup 6667

15% NaOH, 2 gm di 0881.

Received once a week to total discharge 1500 ml ampu after Halt. dis el gr

Wf

6623 Wf

6624 — Wf

The rings 4 are now forced on by a machine a go in fairly hard —

Give a number to the flake —

Note at Bottom —

66.78 21 Hole 005 1½ spiral 3½ lb
cut. 24 Iro 2 green 10 flake
Iro 71 This flake was 100 layers lot + has a streak of something in Center of many pieces — assemble both Chgd deeply + Reversed + then Chgd more — Green thru 30' fume in 21% KOH Reg — Bracket and Wt = 7.683

66.79 " " Wt 7.564

66.80 Wt 7.806

June 19th 1907

Note Machine is now re adjusted, Everything pined = The flake feed is 20 degrs on index to the left!
Iro alternations in size of cup on feed slide but the clump of green is across a Taper ledge to get good mix — Under micro shows layers are now more irregular — Cross Connected + green not so big pieces —
The Ending End machine is now fixed to stop breaking ends —

see page to left

6681 - Dup of 6678

Except 21% KOH, 1 gm LiOH each cell.

Wt 7.931

6682 Cracked end Wt 7.850

6683 Wt 7.909

6684 Dup 6678

Except 21% KOH, 500 milligrams LiOH.
Each cell —

	Wt	7.908
6685 Bracket and	Wt	7.967
6686	Wt	7.841
		7.905

6687 Dup 6678

Except 17% NaOH = 1 gm/l OH.
Each cell

	COH	7.904
6688 bracketed end	COH	7.922
6689	COH	7.845
		7.890

6690 Dup 6678

Except 17% NaOH, 500 mlg/liOH.
Each 100 ml/—

	Wt	7.810
6691 Bracket end	Wt	7.826
6692	Wt	7.829
		7.822

6693 Dep 6678

Except 27% KOH · 2 grms Li OH. Room Cold

	Wt	7.867
6694	Wt	7.799
6695	Wt	7.724
		7.799

6696 Dup 6678

Except 27% Kott, 1 gm ~~1.000~~
Each code

Run Gold

Wt 7.843

6697 Crushed and Wt 8.000

6698 " Wt 7.978

7.940

6699. Dup 6678

21% KOH; 2 grms 10% each cell

RUNCOLD

	bruchkend	Wt	7.945
6700	"	Wt	8.010
6701	"	Wt	7.884
			7.946

6702 Dup 6678

21% KOH. 1 gm LiOH each
Cell - RUN COLD

	LOT	7.948
6703	LOT	7.986
6704	LOT	7.904
		7.946

6705 Dup 6678

21% Rosh. Reg

Cracked end Wt 7.879

6706 " " Wt 7.881

6707 " " Wt 7.931

7.897

For Summerhof

6708 Dup 6678

21% Containing 2 grms d.Off
/Each cell +

	Cracked end Wt	8.003
6709	— " " Wt	8.062
6710	— Wt	8.022
		8.029

for Domerhoff

6711 Dup 6678

27% KOH, Containing 2 grms. LiOH.
Each Cell.

Cracked end. Wt 7.937

6712 " " Wt 7.934

6713 " " Wt 8.010

7.960

Domerhoff

6714. Dup 6678-

21% KOH. 100 milligrams L.OH Each cell

RUN COLD

		Wt	8.1.29
6715	Cracked end	Wt	8.051
6716		Wt	7981
			8.050

6717- Dup 6678-

21% KOH, 200 Milgramm LiOH.
Each cell.

RUN COLD

Bracket and Wt 8.1 02

6718 Wt 7.946

6719 Wt 8.092

6720 Dup 6678 —

21% KOH, 500 Milgrms LiOH Each cell

RUN COLD

LOT 7.986

6721 Cracked end LOT 8.094

6722 LOT 8.055

6723 – Dup 6678

21% KOH, 1 gm Li OH, Each cell.

RUN COL II.

Cracked end. Wt 8.082

6724 Wt 7.960

6725 " " Wt 8.014

6726 - Dup 6678

21% KOH. 2 grms Li off. each cell.

RUN COL II

Wt 8.125

6727 bracked end Wt 8.090

6728 " " Wt 8.047

3 | 24262
8087
5,6609

6729 Dup 6678

21% KOH, 3 gms LiOH Each cell.

RUN COL

Wt 7.870

6730 Cracked end. Wt 7.931

6731 Wt 8.184

6732 Dup 6678

27% KOH. 1 gm LiOH Each cell.

RUN COLD

	Wt	7.920
6733	Wt	7.954
6734 Cracked and	Wt	7.987

6735 Dup 6678

27% KOH 2 grms Lioll Each coll

RUN COL II

Lost

6736 Lost

6737 Lost

6738 Dup 6878

27% KOH 3 grms LiOH Each cell

RUN COLD

Wt

6739 Wt

6740 Wt

Make

6741 Decp 6678

21% KOH, 2 gms LiOH, Each cell.

new process RQ 1011 —

Put up with 2 No 2 mix irons

5 gms each pocket. + Treated

what same as regular irons are now

treated, ~~B~~ - Run hot endurance

hot endurance

iron smooth gms 100
corrugated 75 —

	Wt	7.908
6742	Wt	7.866
6743	Wt	7.858

Edison has the irons —

Make

6744 — Dup 6678

27% KOH. 2 grms di OH Each cell

Put up with Nero process, 70 z
Trons 5 grm Each pocket.
Not Enduranci —

Iron Smith press 100
Compute " 75

	Wt	7.799
6745 —	Wt	7.848
6746 —	Wt	7.788

Edison has mm

Make

6747 1 Dup 6678

21% ROH, Run Regular

But with 2 noms new

process - 1102 -

Hot Endurance

Smooth finish 100

Compl. Dia. 1.75 in.d LOT 7.835

6748 Beveled end. LOT 7.820

6749 LOT 7.798

6750 Dup 6675
21% KOH Run Regular
Use Regular wins.

	Lot
6751	Lot
6752	Lot

New straight side hopper.
Slurry in narrow bottom

6753 =

21 Hole 005 $1\frac{1}{2}$ spl $3\frac{1}{2}$ wt,
10 flake 24 to 2 crown – flake the Reg
streaky big lot flake #71
assemble with Nickel strip and
run Reverse. 3 times shortstroke
after Each reverse 21 to 0 Then
assemble with Reg Trans. 21 to
Rot, Run Reg

	Wt	7.900
6754	Wt	7.897
6755	Wt	7.909

6756 Dup 6753 –

But use 10 flake of streaky kind that has been thru Hydrogen assemble with hi strip grip samples 6753

	WT	8.517
6757	WT	8.304
6758 crackmement	WT.	8.289

$3\overline{)25110}$
8370

6759 Dup 6753

Except already flake used that has been thru Hydrogen & afterwards through Copper Solution 5 hours assemble with Ni strip & run same as 6753

	Lot	8.103
6760	Lot	8.162
6761	Lot	8.017

3) 24282
8094

6762 Dup 6753

Except Reg already [illegible]
assembled with 21 [illegible]
non directly — 21% Rott,

Ref 7.919

6763 Ref 7.997

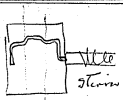
6764 — Ref 7.928

6765 = Dup 6759 —

Run 21% KOH Reg - 7 mins —

Bracketed WT 4.974

6766 –



New 73 flake =
New Hopper ~~straight~~ sides 20 to left – new stirrer new mould.
10 of 24 green No 2 21 Hole 005 – 1½ spiral –
Run Reg 21.6 NOH.

	Wt	7.931
6767	Wt	7.854
6768 Cracked end	Wt	7.819

3) 23604
7868
5.5076

6769 Dup 6766 — 73 flask

Except run in 21% KOH, with 2 grms LiOH each cell —

Wt 7.868

6770 Wt 7855

6771 bracket slightly Wt 7.777

3 | 23500
7833
7
5.4831

6772 Dup 6766 - 73 flex

Except 27% KOH, 2 grms Li_2O
Each cell -

Wt 7.798

6773 Wt 7.854

6774 — Wt 7.888

$3\overline{)23540}$
7847
$5\cancel{4}929$

6775 – Dup 6766 – 73/flake

Except 21% KOH, 1 gram LiOH each cell –

cracked end	Lot	7.862
6776 cracked end	Lot	7.878
6777	Lot	7.910

$$3\overline{)23.650}$$
$$7.883$$
$$7$$
$$5.5781$$

c/2 Uncle flake

6778 = Dup 6766

Same setting as 6766 - but 1/2 size flake that we used before & which was OK — didn't have to change adjustment of slide as the block increases — it gave 5 mlg instead of 10 #

21% KOH

This is to see if 75 flake is bad or getting worn

Put up Sunday Run
Back till Sunday
other go on Monday.

Wt 7.404

Wt 7.385

6779

6780

Wt 7.380
3/22169
7389
88

put in KOH, 330 P.M.

6/29/07

36942
5911
61280 65

6781

Drop of 6766 —

But the top cap is only laid in
+not pressed in the mix! —

Wt 7.718

6782 Wt, 7.688

put in KOH. 545 P.M.
6.29.07

2) 15406
7703
5,3921

6783 Dup 6766

Streaky flake broken up entirely by fingers thru 20 it curls so that it gives only 7.8 by on an inch — where to be great by Cutting — ~~[illegible]~~ longbeard about 80 gives 100 without stamp mill — don't think it will go in more a pieces not flat — There are no small fines likely Cutting — possibly dust from fingers may hurt —

Wt 7.935

6784 — Wt 8.025

2 | 15.960
7.980
5.5860

Put in R.O.H. 7.35 P.M.

6/29/07

6785 - Dup 6766

But steady flake broken up by fingers + then treated Hot with alcohol containing Pea size NaOH. stick —
There was opalescent on heating alcohol with HCl —
21% KOH Reg

Clot 7.872
5.0704

1st Run 570

6786

Same as 6785

Except mixed 100 mlg HgO

with 3.686 mlg twisted hound broken strong flake —

Run 21 o/o KOH.

Wt. 8.269 —

1st Run 580 —

5788.3

6787 Dup of 6786

But put in 21 o/o Coulomey

2 ~~opens~~ ~~21 o/o~~

Wt

6787 –

73 flake – 6 grms flake 200 mls H_2O washed alcohol – flake stirred with it *
Run in 21% —

Wt 7.762

1st Run 720

5433.4

6788 – Dup 6787 Cut 21%
with 3 grms dilute Each cell —

1st Run 820

Wt – 7.753

5427

6789

73 flakes — 10 of 24 No 2 grown
Reg tube etc —

21% KOH, Dr Webber put 4 cc
of the Bichloride of Mercury
Solution in 175 cc of KOH,
Use this Solution in cell

1st Run 643 Wt 7.760
5.4320

6790
Dup 6789
Same Solution as in 6789
Get in solution, add
2 grams Li OH,
Wt 7.697
1st Run 793
5.3879

6791.

Same Solution as 6789

But we have Dr Webster put as much

6791—
Same as 6789

Use 27% KOH, Have Dr Weber put as much Bichloride Mercury in as solution will stand, & then add 2 grms. KI OH.

1st Run 790.

Wt 7,754—

5,427

6792 71 flake streaky - aluminals
run then Cop Sol - key - [redacted]
But flake then Tamp then grown then
Tamp — 21% KOH.

Wt 8.639
1
6.0473

6793 Drop Cut 73 flake.

Wt 8.065
1
5.6455

6794 Drop Cut 71 streaky flake
not again treated —

Wt. 7.784
5.4488

6795 Drop 73 flake plunger
wet each strike -

Wt 8.264
5.7848

all above grown then Tamp flake then
Tamp —

New flake No. 75

6796 — Very pretty no. 2 — perfect flake cut with grooves — beautiful bright flake —

21 Hole 005 3½ wt, 10 flake 24 green No 2 Thru 30 meshes - New ⊓ silver in Hopper - flake + Tamp ~~[illegible]~~ Tamp 21% No 2 Grove 6 grove crack flake 75

	wt	7.746
6797	wt	7.784
6798	wt	7.795

~~test~~ -

96 Mdy 10 dumps without joining — 3) 23.325 / 7.775

54425

Note apparently the flake dumped forward in Cup

Thru will be so until 102 fixed letter,

gloves used on this flake

6799 – Dup 6796 – No 2 green/lum 30

Except 8 flake 24 green

Flake 75	Wt	7.555
6800	Wt	7.614
6801	Wt	7.710

$\frac{22879}{7626}$

Test 7.5 – Only 10 Dumps no green

No 2 6 grm Iron not chgd 1st

$\frac{24}{32}$ (2440 / 2240 / 1600 (75.

7626 / 75 / 38130 / 53382 / 571.95

6802 Dup 6796 — No 2 grain Thru 30

Except 5 flake 24 No 2 grain

flake 75 Lot 7.353

6803 Lot 7.289

6804 Lot 7.272

24.914

7305

No 2 Iron 6 grains not chgd

24 × 24 = 240 (80 = 378

7305 × 80 = 584400

6805 Dup 6796 No 2 grain 1 from 30

Except 3 flake 24 grain

Flake 75 Wt 7.016

6806 Wt 6.990

6807 Wt 6.971

3)20977
6992

No 2 Grains 6 grains not chgd 15

27 | 240 | 90-
243

6992
6.2928

6808 Dup 6796 — No 7 green than 30

Except 18, green 6 flake

Flake 75 Wt 7.640

6809 Wt 7.807

6810 Wt 7.739

3 | 23 | 186
7 | 7729

No 2 Trans 6 grms not chg

7729
7.4
38645
54103
5.77

1<

6811 Dup 6796 —

No 2 green Thru 30

Except 18 green — 4 flake

flake 75 lot 7.477

6812 lot 7.574

6813 lot 7.453

3 | 225.04

No 2 Irons 6 grm not elgd

1022 72 - not good

Curves -

750

82

15002

6008

6.175

22 | 180 | 82
176
4

6814 Dup 6796

No 2 green thru 30

Except 18 green 2 flake

flake 75 Lot 7,142

6815 Lot 7,112

6816 Lot 7,115

7,29369

~~No 2 Iron 6 grain wt of~~

7123

90

64107

1011 Fe 5. gram wt change

R.A. Jun

20/1/90

6817 =

No 76 flake this part Thru Hydrogen low heat to take spring out. got too low —

21 Hole .005" 3½ wt —
No 2 green thru 30 mesh 18 green
2 flake Thru Hydrogen
green then Temp flake then Temp

Need stirrer —

21% ~~New No 2 Cr now 6 grm~~
Each not chgd —

There is the probable defect of dumping flake to one side —

#1011 Fe 5 grm not chang
R.A. Iron

6818 Wt 7.099

6819 Wt 7.104

Wt 7.126

3)21.329
7.109
8%

6.9987

6820 Dup 6817

Except 18 green 4 flake

	Wt	7.557
6821	Wt	7.632
6822	Wt	7.558

3 | 22.747
7.582

flaking not high enough on heat to take spring out.

Flaking not high Enough
6.823 fine hydrogen

6.21

6823 Dup 6817

Except – 18 green 6 flake

Wt 7.715

6824 Wt 7.793

6825 – Wt 7.751

3 | 23.259
7753
75
38765

flaking wt 5.4271 75

Enough to make spring wt

5.81475

24 | 190
168
120
120
75

6826 –

Duplicate 6820 – 21 & 22

With flake which has been brought up high enough in Hydrogen –

The flake is still a little springy

Wt 7.458

6827 Wt 7.488

6828 Wt 7.514

3)22457
7486
6.138

6829

Diphenylmy 6823-24-25 —

With flake which has been
brought up higher in Hydroquin —
Spring not all over yet —

Wt 7.910

6830 Wt 8.044

6881 — Wt 7.955

$$3\overline{)23909}$$
$$7969$$
$$\overline{39845}$$
$$5.578$$
$$5.976$$

6832 —

21 Hole 005 $3\frac{1}{2}$ cot
24 oz green through 20 fumes in —
5 flake —
75 flake Turn Hydrogen spring not
quite all out Green Turnip flake Turnip
No 2 $\frac{1}{2}$ 5 gm 1011 RA,

Wt 7.441

6833 Wt 7.350

6834 Wt 7.336

3 | 22127
7376
8227
5132
1478
5900
6.0999

29 | 240 427
234
6.09

6835 Dup 6832

Except 1 from L. Off Each all –

75 Thrust

	Cof	7.284
6836 Slightly cracked end	Cof	7.330
6837	Cof	7371

$$
\begin{array}{r}
21985 \\
\overline{)\,7328} \\
5129 \\
4656 \\
1624 \\
\hline
5869 \\
6059
\end{array}
$$

6838 = Dup 6832

Except 2 grms ✓ ~~OH~~ Each
Cell

75 lkmHf

	Cof	7.413
6839	Cof	7.368
6840	Cof	7.403

3 | 22184
7393

6.11

6841 –

21 Hole oos 3½ – 24 to 2 gross
7 flocks – (75 Month ft) –

Cot 7.680

6842 – Cracked and eighty Cot 7.665

6843 Cot 7.622

3 | 22967
7656
774
30624
3592
3592
5.9257 44

6844.

21 Hole .005 1½ spiral 3½ wt. 75 flake
Thru Hydrogen soft ish - clungs + follows contour of
green perfect, 6 flake 24 .002 green.
Plunger now perpendicular sharp edges,
Striker harder blow than usual ~~to~~
21% - assemble with RA 1011 runs 5 grms -
Layer loading - Green Through 20 mesh.
75 flake

Wt 7.443

6845 Wt 7.444

6846 Wt 7.481

$$3\overline{)22368}$$
$$7456$$
$$80$$
$$5.9648^{80}$$

Tamp gives very solid knock, 3 knox

6847

Dup 6844.
Except 7 flake 24 green.

Wt 7.682

6848 – Wt 7.676

6849 – Wt 7.634

$$3\overline{)22992}\ 7.664$$
$$7664$$
$$7664$$
$$3065$$
$$5364$$
$$5364$$
$$5.93193$$

$$31\overline{)240}\ 7.74$$
$$217$$
$$230$$
$$217$$
$$130$$

6850-

Dup 6844
Except 8 flake 24 green

	Wt	7.826
6851	Wt	7.747
6852	Wt	7.713

3 | 23286
7429
75
57145
52003
5.57 19

32 | 2409 | 75
224
16

6853

Dup 6844

Except 6 flake 75 Not thru H,
24 green

	Wt	7.452
6854	Wt	7.436
6855	Wt	7.433

3 | 22.321
7.440
.80
5.95200

6856

Dup 6844 flake 7½

Except 7 flake not thru Hydrogen
24 oz green

	Wt	7.652
6857	Wt	7.597
6858 Slight crack	Wt	7.484

3) 22733
7578
774
3031 2
53046
53046
1.8653

6859-

Dup 6844

Except 8 flake Not thru Hydrog

24 green

Wt 7.657

6860 Wt 7.696

6861 Wt 7.676

3 | 23029
| 7676
75
3838
5 3732
3,757

6862

Dup. 6844

Except 21% 2 grms 2.0 Ah.

	Wt	7.507
6863	Wt	7.424
6864	Wt	7.540

$$3\overline{)22.471}$$
$$7.490$$
$$5.992^{88}$$

6865

Dup 6844 —

Except 6 flake Not Burn Hydrogen
24 hrs — 1002

21% KOH 2 grms Li OH
75 ft-lbs

Wt 7.496

6866 Wt 7.525

6867 — Wt 7.507

3) 22528
7509
6,0072

6868

.21 H_2O_2 005 $1\frac{1}{2}$ spiral. $3\frac{1}{2}$ wt.
75 flake Thru Hydrogen — soft —
16 No 2 green 4 flake — green Thru 20.
21% KOH.

Wt. 7.635

6869 Wt 7.620

6870 Wt 7.637

3 | 22892
7631
60
6,1048

20 | 160 | 160

6871
Dup 6868

Except. 36 No 2 green 10 flake
No 75 Thru Hydroplex -
21% KOH,

	Wt	7.455
6872	Wt	7.512
6873	Wt	7.486

3 | 22453
7484
782
7 | 4968
5987 2
5 2388
5 8529 8
51

100%
782
21%

6874

Dup 6868 –

24 oz green Horn 20 7 flake .0075
thru Hydrogen – Pure Nickel
oxide – old rubbers. 21% KOH –
RA 1011 Iron if have it if not
mark here what you use
Use Nickel rod screws & nut.

R.A. 1011 iron	Wt	7.593
6875 used	Wt	7.549
6876 Slightly bucked end	Wt	7.551

3 | 22.693
7.564
7.74
30.256
5.298
5.298
5.544

6877

21 Hfb 005 1½ spl 3½ wt

36 No 2 green thru 20 —
4 flaked No 75 thru Hydrogen
aqf + 21% KOH.

Wt 6.897

6878 Wt 6.876

6879 Wt 6.876

3)20649
6883
9
61947

6880 -

21 Hole 005 1½ spiral 3½ wt.
36 of No 2 green 4 No 75 flake Thru Hydrogen
2 ~~flat~~ wires 3/8 long each made of
6½/1000 CP Nickel wire - then flattened
in Rolls to 2/1000 thick 2 wires put
in with each dump of flake.
Run 21% KOH. Weight of 20 flat wires
3/8 long - 38 milg = 22/1000 inch Wires were finally
passed thru Hydrogen -

Wt 7.310

6881 ——— Wt 7.206

2) 14.516
7.258

5.93 green

6882

Dup 6880

Except 24 No 2 green 7 flakes

No 75 Hum Hydrate new soft —

2 wires at each dump of flake

21% KOH,

Wt 8.368

6883 Wt 8.341

6884

21 Hole 005 1½ spiral 3½ cb —
24 No 2 green mixed with 10% by weight of Chloride of Potash through 50 mesh on 100 mesh — Lose 24 dly opening 7 flake No 84 Turn Hydroxed — 9 ft
Put in 21% KOH, Soak 48 hours
Then put in fresh 21% KOH.

COF 7.767

6885 " COF 7.629

6886 — COF 7.621

$$3\overline{)23017}$$
$$7672$$
$$774$$
$$30686$$
$$53704$$
$$53704$$
$$5,934126$$
$$90$$
$$5,34420$$

6887 Dup of 6884 –

Except. 10% by Wright
Carbonate ammonia. Thru 50 on 100
mesh – Use 24 mlg shots for feeding
Dosch ~~in KOH~~ ~~for~~ Urban Ion Change
Solution – No flake –

Contents
dont even
get moist

6887 = Dup 6884 —

Except 5% by weight of Lithium Carbonate
~~Product unacceptable~~ 50 — Take 24 mlg of this
mixture 7 Take & Soak in 21% KOH
assume 4% Lithium Carbonate
48 hours, then need not change the
Potash but take up strain last End
of 48 hours or recon that time so it
goes on 4:30 PM Change —

COP

6888 COP

6889 COP

Cancelled

6890 to 6902 =
Go to prove if heavy stiking diminishes porosity so tubes run 600 finally —
by giving Cavity place for KOH

6890 — 31 Hole 005 1½ spl 3½ cut. 7.70 2
GREEN — 24 mix 7 tubes to 84 —
+ 5% by weight of Chloride
Potash mixed with green — KCl is
Ground to ~~[illegible]~~ powder & well mixed with
the green so purified all adhering to big pieces.
Soak 24 hours & change KOH soak 24
~~[illegible]~~ more hours then change KOH &
send up stairs

84 f — 7.08 RA.	Cut	7.690
6891	Cut	7.575
6892	Cut	7.606
		3 | 22871
		7624

33.250 green weighed out
1.750 KCl muffle furnace added
3 5.000 —

5.91 mix
5.61 green

Mixed with glove gently = seems breakup some — Where shows KCl particles
Clung to big lumps OK —

Heavy stiking, layer loading —

6893 = Dup 6890

Except 15% Chloride Potash mixed
with No 2 green —
Impalpable powder 84 fl chlo Hyd
These were the last of 1011. Ra. in me 708 Ra
Stock 45 hours — Chg KCPL.

Lot 7461

6894 Lot 7414

6895 Lot 7454

3/22329
7443

29.750 green No 2 (708 Ra)
5.250 KCl —
35.000 = weighed out.

5.76 mix
4.89 green

6896 = Dup 6890

Except 20% Chlorine Bleach
Mixed with green —
Philippine parts sea #1029 RQ
Soak 24 hours chg bleach
Then soak 24 more hours then change
KOH + send up
Slight back. LOP 7.355

6897 LOP 7.386

6898 LOP 7.461

3 | 22202
7.401

28000 green
7000 KCR
3.5000

LO. Eighed out,

5.720 mix
4.57 green

6899 Dup 6900

Except 30% Chloride Pal. rish
mixed color green
Impinge powder #1029 R.A.
Soak 24 hours - change Palash
soak 24 more hours change
Palash & send up slides

Cof 7.325

6900 Cof 7.231

6901 Cof 7.282

3 | 21.83.8
7.279

24.500 green
10.500 TRCP
35.000

Weighed out
5.63 mix
3.94 green

6902

Dup 6890 10% KCl

10% Chloride Potash
Mixed with green
Impossible to screen #1029 RQ.

Soak 24 hours change KOH
Soak another 24 hours
& change KOH & send
up again

WP 7658

6903 WP 7.604

6904 WP 7628

3 | 22890
7630
6060
5040
5040
5040
5040
5040

31,500 green
31,500 KCl } Weighed

5:31

6905 Dup 6884

5% Chlorpicrin Patch thru 100 on 180 –
mixed with K 3 green

Soak 24 hours 21/oz

Change & soak another 24 hours –
then change & send up Cairo

Lot

6906 Lot

6907 Lot

6905 -
21 Nole 005 - 1½ spf 3½ wt.

5% Chloride Potash mixed with No 2
green (RA 108) so particles adhering
to surface green particles ground
KCl to impalpable powder - #1029 R.A.
24 of this 7 flake Thru Hydrogen
Daft No 84 flake -
Layed loading - heavy striking -
Soak 24 hours 21% change KOH
Soak another 24 hours 21% then
Put in 33% & send up stains
21% flake through hydrogen very soft
Flakes 67½ % of ten dumpf each

Cot 7.614

6906 Cot 7.723

6907 Cot 7.815

3)23 1 52
7717
774
3 40 868
3 40 1 9
3 4 0 1 9 5
3 4 0 1 9 5 8
3 97 29
95
3 78 8 5 67 34

5.67

6908 Dup 6905

10% Chloride Potash,

Treat same + finally run in. #10 29 R.A.

33% —

	Wt	7.702
6909	Wt	7.731
6910	Wt	7651

$3\overline{)23084}$
7695

5.95 mix

5.36 green

6911 Dup 6905 –

15% Chloride Potash –

furnace run – 33% –

Filtered through hydrogen very soft,
2nd pt 84 –

Wt 7.966

6912 Wt 7.758

6913 Wt 7.715

3 | 23.439
7.813
.774
3.1252
.5469
.5469
6.10472
.85
30235
48376
5.1399

5.13 gr

6914A = Dup 6905

20% Chloride Pat each

funnel, run 33%

Wet

6915 Wet

6916 Wet

6917 Dup 6905

5% Chloride Potash —

Soak in 21% KOH, twice then
Change to 21% Containing
2 grams LiOH Each cell —
Flake the high hydrogen very soft No 84 2.0%

Wt 7.852

6918 Wt 7.845

6919 Wt 7.932

3) 23.629
7.876
.774
3.504
5.513.2
5.513.2
6.095
.485
.485
.485
.485
5.79

5.79 grams

6920 Dep 6905

10% KCl

Change twice as in 6917 +
[illegible] put in 21% Co containing
[2 gms X, 0.08, Each cell –
Flake through hydrogen very soft.

Slightly cracked. Wt 8.143

6921 Wt 7.931

6922 Wt 8.008

3)24082
8027
774
32108
56189
56189
6121289
5591601

6923 Dip 6905

15% KCl

After 2 soaks run in
21% containing 2 grms diBA.
Each c.c. —
Flake through hydrogen very soft 2nd pt 84 ⅌ 7.890

6924 Cot 7.932
6925 Cot 8.136

3 | 23858
79 53
774
2
31 81
5567
5567
2
61555
85
95
3077
4924
5231

5.23 grms

6926 - Dup 6905

20% KCl

After 2 weeks - run in 21% KOH, Cutting 2 grms LiOH,

Wt

6927 Wt

6928 Wt

6929 | Dup 6905

25% KCl

After 2 doses - run in 21% KOH, containing 2 grms LiOH each cell

Lot

6930 Lot

6931 Lot

2 1/2 lbs of Layer loading-

6932

21 Holz 005 1 1/2 spiral - 24 No 2 green
RA 708 - thru 20 funcs in - 10 flake Ni Ney
process good flakes No 75 Not thru Hydrogen -
[illegible] stirrer in flake hopper, Layer loading -
Wt Wt 2 1/2 lbs. - Tamp rod 237 - champa
polished - dead perpindicular no side bind -
Rings smaller size lately used + forced on by
machine, flake thru 20 - handled with gloves.
21% KOH. - New process irons No 1029

	Wt	7.647
6933	Wt	7.630
6934	Wt	7.627

3 | 22904
7.635
7
5,3445

$2\frac{1}{2}$ cal

6935 Dup 6932 –

21% KOH 2 grams KOH, 2 each cell –
Wet through hydrogen 75 flake

Wt 7.656

6936 – Wt 7.693

6937 – Wt 7.582

$$3\overline{)22931}$$
$$7644\ 7$$
$$5.3508$$

2 ½ cot

6938 Dup 6932

33% KOH,
not through hydrogen #75 flake

Wt 7.602

6939 Wt 7.627

6940 Wt 7.621

3)22.850
7.617
5.3317

Old style loading 2½ wt

6941 =

21 Hole .005 1½ spiral 2½ lb weight.
10 flake sro. 75 good flake not thin
Hydrogen - 24 sro 2 green 708 RA thin 20
fuses in - Old way of loading
Double Tamps - The index at Zero.
Bevel edge dump on green - ⌐ slitter
Tamprod 237 sharp - perpendicular
21% KOH. - bevel green dump RA # 1029 Fe

Wt 7.658

6942 Wt 7.500

6943 Wt 7.581

3 | 22739
7.580
5,306

$2\frac{1}{2}$ wt

6944 Dup 6941

21% Except 2 grms cloth each cell.
flake No. 86 not H. ~~Index zero~~

Wt 7,439

6945 Wt 7,419

6946 Slight crack Wt 7470

$$3\overline{)22328}$$
$$7443$$
$$\overline{5,2101}$$

6947.

Dup 6941 $2\frac{1}{2}$ wt –

Except flake dump Index 10 degrees to left – 21% KOH.

flake ~~86~~ not H

Wt 7.436

6948 Wt 7.427

6949 Wt 7.431

$$3\overline{)22294}$$
$$7431$$
$$5,2017$$

6950 $2\frac{1}{2}$ wt

Dep 6941
10 degrees To left
Except 21% Kott, 2 grms of Kott
Each call — Make 86
Not H.

Kott 7.449

6951 Kott 7398

6952 Kott 7.362

3)22209
7403
7
51821

6953 — 2 ½ wt

Dup 6941

Except 20 degrees to left -
21% KOH, flake to 86 — not Ht.

Wt 7336

6954 Wt 7358

6955 Wt 7400

$$3\overline{)22094}$$
$$7365$$
$$5.1555$$

6956 $2\frac{1}{2}$ wt

Dup 6941

Except 21% ROH, 2 grms LiOH 2 each cell
Index 20 To left —
flake No 86 not burnt.

wt 7.327

6957 slightly cracked wt 7.327

6958 wt 7.236

$3\overline{)21.890}$
7297
7
5.1079

6959 Dup 6941 2½ wt

Except 21% KOH, Index 30 to left
flake No 86 not H,

Wt 7.292

6960 Wt 7.326

6961 Wt 7.324

3)21942
7314
5.1198

6962 $2\frac{1}{2}$ cut

Dup 6941

Except 21% KOH, 2 grams ~~1.80~~, Each cool Index 30 to left — flake to 86 Not turn to —

cut 7.286

6963 cut 7.284

6964.- cut 7.262

$$\begin{array}{r} 21832 \\ \hline 3\,\big)\,7277\,\frac{1}{3} \\ 5593\,\frac{1}{3} \end{array}$$

6965

Dep 6941

Except 86 flake Through Hydrogen

21% RO4, Indix at Zero

Wt 7,731

6966 Wt 7,833

6967 Wt 7,722

$$3\overline{)23286}$$
$$7762$$
$$7$$
$$5,4334$$

6968

Dup 6941

Except 66 flake through Hydroquin

21% KOH, 2 grms L, ~~Off Each cell~~

Index at Zero

LOF 7.689

6969 LOF 7.703

6970 LOF 7.663

3) 23055

7685

7

5.3795

6971 Dup 6941 —
Except 86 flake through Hydraquin
Index 10 degrees to the
left 21% KOH.

	Wt	7.608
6972	Wt	7.578
6973	Wt	7.654

$$3\overline{)22840}$$
$$7613$$
$$7$$
$$53291$$

6974 Dup 6941

Except 86 flake thru Hydrogen

10 degrees to left.

21% KOH, 2 gms 2/104 each cell

	Wt	7.763
6975	Wt	7.796
6976	Wt	7.732

$$3\overline{)23291}$$
$$7764$$
$$54348$$

6977 Dup 6941

Except 86 flake then ~~the~~ dragon

Index 20 degrees to left

21 % KOH,

Lot 7.505

6978 Lot 7597

6979 Lot 7.642

3)22744

7581

53067

6980 Dup 6941

Except 86 flake thru Hydroquin
Sunday 20 degrees to left
21% KOH, 2 gms 1.0 H Each cell

Slight check Lot 7.594

6981 Lot 7.578

6982 Lot 7.589

3 | 22.761
7.587
7
53.109

6983
Dup 6941
Except flake 86 Thru Hydroqum
30 degrees to left –
21% ~~Kcff~~ –

Wt 7.708

6984 Wt 7.677

6985 Wt 7.827

$$3\overline{)23282}$$
$$9761$$
$$5,4327$$

6986 –
Dup 6941
Except 86 flake through hydroquin
Index 30 degrees to left
21% KOH, 2 grms Li OH Ethylcell

Lot 7.791

6987 Lot 7.761

6988 Lot 7.847

$3\overline{)23.399}$
4999
5.4599

Notebook, N-07-08-06

6989 Dup 6941 Except 10 degrees to the left. 7 flake 86 not through Hydrogen
21% KOH. 2½ lb cof

	Cof 7.171
6990	Cof 7.141
6991	Cof 7.160

3) 21472
7157
7157
28628
50099
50099
55395

6992 Dup 6941
Except 10 degrees to left. 7 flake
86 not thru Hydrogen
21% KOH. 2 grms LiOH each cell

Cot 7.181

6993 Cot 7.277

6994 Cot 7.138

3 | 21.596
7.199
774
2.8796
5.0393
5.0393
5.5720 20

6995 Dup 6941.
Except 20 degrees to the left.
7 flake 86 not thru Hydrogen
2½ cut - 21% KOH.

102 7a

	Cut	7141
6996	Cut	7.085
6997	Cut	7.081

$$
\begin{array}{r}
3\,\overline{)\,21307} \\
7102 \\
\cancel{774}\,8 \\
28404 \\
49714 \\
49714\,8 \\
\hline
54969\,48
\end{array}
$$

6998 Dup 6941-
Except. 20 degrees to left.
7 flakes 86 not Thru Hydrogen
21% KOH 2 grms LiOH each coff.
2½ wt

1029 fr

6999

7000

Wt 7.117

Wt 7.105

Wt 7.144

3 | 21366
7122
7122
28488
49854
49854
49854
28
55123

7001 Dup 6941
Except 10 degrees to left.
7 flake 86 Through Hydrogen soft
21% KOH, 2 1/2 wt

10295L

	Wt	7.339
7002	Wt	7.347
7003	Wt	7.389

3)22075
7358
774
29432
5 15506
5 15506
569 5072

7004 Dup 6941 Except 10 degrees
to left. 7 flake 86 Through Hydrogen
Soft –
21% KOH 2 grms LiOH. each coll.
2 ½ wt
10 2972

Wt 7.375

7005 Wt 7.398

7006 Wt 7.381

3 | 22157
7380
774
39540
5.1695
5.1695
5.71599

7007 Dup 6941 Except: 20 degrees to left, 7 flake 86 Throughout soft. 21 %, KOH 2 ½ wt

10294z

	Wt 7.300
4008	Wt 7.315
4009	Wt 7.330

3 | 21945
7315
774
0
2926
51205
51205
0
5.66181

7010 Dup 6941 Except 20 degrees to left 7 flake 86 Through H.
Soft - 2½ cot
21% KOH, 2 gms LiOH Each cell.

1029 ft

Wt 7.371

7011 Wt 7.279

7012 Wt 7.326

$$9\overline{)21.976}$$
$$7325$$
$$774$$
$$2930$$
$$2975$$
$$5125$$
$$5125$$
$$5.669$$

7013 Dup 6941 Except 10 deg to left
86 flakes not thru Hydrogen 1/2 of the
flakes thru 20 - the other 1/2 thru 50
Usually mixed together -
7 flakes 24 Cro2 green 708 Ra -
from 6 oz Pc -
21% ROH1
10297 Fe

Wt 7.252

7014 fractured end Wt 7.200

7015 Wt 7.176

$$3\overline{)21628}$$
$$7209$$
$$779$$
$$28836$$
$$5046$$
$$5046$$
$$5.5797$$

7016 — Dup 7013

21% Roth. RUN COLD

1024 Fe	Wt 7.223
7017	Wt 7.188
7018	Wt 7.169

3 | 21.580
7193
~~774~~
28 772
503 51
503 51
5.673

7019 Dup 7013 -

21% KOH, 2 grms Lightzack calf -

1029 gr

Wt 7.134

7020 Wt 7.128

7021 Wt 7.159

3 | 21.421
7.140
774
2856
4998
4998
5,526 360

7022 Drop 6941 Except 10 deg to left. Req 86 flakes not 1hour
Hydrogen No 2 green 708Ra from bottle — 7 flake 24 green
Use old loose rings - put on by hand —
21% Rott.
.1029 ft

Lot 7.167

7023 Slight breaks Lot 7.201

7024 Lot 7.166

3)21534
7178
744
2871
50246
50246
5,55577

7025 Dup 7022

21% KOH, RUN COLD

10297	Wt	7.194
7026	Wt	7.215
7027	Wt	7.172

$$
\begin{array}{r}
7172 \\
\overline{)321581} \\
7194 \\
\hline
777 \\
28776 \\
50358 \\
50358 \\
\hline
5,568156
\end{array}
$$

7028 Dup 7022

21% KOH, 2 grms LiOH Each cell

10297

	Wt	7.186
7029	Wt	7.185
7030	Wt	7.177

$$3\overline{)21.548}$$
$$7.183$$
$$7.74$$
$$28732$$
$$50281$$
$$50281$$
$$5.5596$$

7031 Dep 6941 Except 10 degrees to left. 86 flake not thru Hydrogen
7 flake 24 green from Diagonal RA 708
Pict up with old irregular irons

24% Koff.

	Cof 7.224
7032	Cof 7.263
7033	Cof 7.324

3 | 21711
7233
774
2893
5631
5.0631
5.0631 2
5.5983 4

7034 Dup 7031

21% KOH RUN COL □

Put up Regular old mono –

	Lot	7.245
7035	Lot	7.180
7036	Lot	7.098

3) 21.523
7.178
774
2571
2246
5.0 - 246
5.0 - 2.46
5.5377

7037 Dup 7031

21% KOH, 2 gms LiOH Each cell

Put up with Regular old irons

	Wt	7.152
7038	Wt	7.082
7039	Wt	7.122

$$3\overline{)21.356}$$
$$7119$$
$$777$$
$$25476$$
$$49833$$
$$49833$$
$$5.41006$$

7040 Dup 6941 - Except 10 degrees To left. 86 flake not Thin H 7 flake 24 green from The big drum Ra 708 - Iwu 20 finds in -
1029 Gran
21% Kott,

Wt 7.098

7041 Wt 7.185

7042 Wt 7.133

3 | 21416
7139
474
28556
49973
49973
5,5-235-8

7043 Dup 7040

21% KOH, ~~RUN~~ COLD

1029 Fe

	wt	7.167
7044	wt	7.117
7045	wt	7.127

3 | 21411

7.137

774

28548

49959

49959

5.62400

7046 Dup 7040

21% KOH, 2 grams LiOH each cell

1029 ft -

Wt 7.147

7047 Wt 7.222

7048 Wt 7.209

3)21578

7193

774

28772

50351

50351

5,5673 82

7049 Old ~~Stuff~~ ~~dumping~~ ~~ground~~ ~~wanted~~ ~~on flake~~
86f Not Thru H — 7 of 24 green
double lamp
708 Big Drum lot — 3 Hours on
hot plate, then when cold and 1/2
hour beyond — Then used 3 lb cut.
DT —
21% KOH.

Lot 7,282

7050 Lot 7,167

7051 Lot 7,242

$$\begin{array}{r} 21691 \\ 7230 \\ 774 \\ \hline 28920 \\ 5061 \\ 5061 \\ \hline 51996 \end{array}$$

7052 Dup 7049-

21% KOH. RUN COLD

Blest

Cot 7.127

7053 Cot 7.189

7054 Cot 7.113

$$\begin{array}{r} 3\overline{)21.429} \\ 7.143 \\ 774 \\ 28572 \\ 50001 \\ 50001 \\ 35286 \end{array}$$

7055 Dup 7049

21% KOH. 2 grms Li_2O_2 Each cell —
3 lbs.

Lot

7056 Lot

7057 Lot

7058 Dup 6941 Except 10 to left.
708 Big Drum — 7 flake Through
Hydrogen 86 ft — 24 green 2½ cut

lot 7.209

7059 lot 7.265

7060 lot 7.178

3) 21652
7217
774
2868
5059
5059
5059
5059
51

7061 – Dup 7058

21% ROH RUN COLD
2 ½ cut

	Cut	7,154
7062	Cut	7,157
7063	Cut	7,208

3) 21519
7173
77½
2869
50211
50211½0
55519

7064 Dup 7058

21% KOH, 2 grms LiOH. Each cell –
2½ wt

	Wt	7.167
7065	Wt	7.192
7066	Wt	7.167

3 | 21.526
7.175
.774
2670
.5022
5022
3.5534

7067 - Dup 7058

21% ROH 2 gms LiOH, 2 each cc OC

RUN COL

Lot 7.119

7068 Lot 7.142

7069 Lot 7.055

$$\begin{array}{r} 7.05 \\ 3\overline{)21.316} \\ 774 \\ \hline 2842 \\ 4935 \\ 4935 \\ \hline 4935 \\ 4935 \\ \hline 0 \\ 27 \\ \hline 5.4927 \end{array}$$

7070 Dup 6941 Except 10 to Coff.
of flake 86 Through H. Dragon
24 green 708 Bicp Drum Coff,

3 Pound Weight

21% Roff.

	Wt	7,290
7071	Wt	7,278
7072	Wt	7,288

3 | 21856
7285
774
29140
50995
50995
5,63857

7073 Dup 7070

21% ROH RUN COLD

326 cut

LOT 7.275

7074 LOT 7.248

7070 LOT 7.261

$$3\overline{)21784}$$

7261

774

29044

50827

50827

5,620014

7076

Dup 7070 RUNCOLD

21% KOH, 2 grams L. ~~coli~~ each cell
3 Eg. dot

	Wt	7.183
7077	Wt	7.159
7078	Wt	7.273

3) 21615
7205
774
28820
5043
50435
50435
515766

7079 Dup 7070

21% Roth, 2 ~~[illegible]~~ Roth,

316 cut –

	lot	7.179
7080	lot	7.260
7081	lot	7.178

$$3\overline{)21.617}$$

7.208

774

28832

0456

5.0456

5.57899

7082 Dup 6941 Except 10 To left
7 flake 86 not thru Hydrogen

708 Big Drum Lot,

3 lb weight

21% Kott,

Lot 7.362

7083 Lot 7.406

7084 Lot 7.462

$$3\overline{)22230}$$
$$7410$$
$$774$$
$$2964$$
$$5.1870$$
$$5.1870$$
$$5.73\ 5.3\ 40$$

7085 Dup 7082

21% KOH, RUN COLD

3.16 wt

Wt 7.402

7086 Wt 7.414

7087 Wt 7.366

3)22182

7394

774

29576

51758

5.1758

5.17229 5-6

7088 Dup 7082

21% KOH, 2 gm. dioxane,
RUN COL

316 cut -

	Wt	7.402
7089	Wt	7.388
7090	Wt	7.386

3 | 22.176
7392
774
29568
5174
51744
51744
5.72170

7091 Dup 7082

21% KOH, 2 grms LiOH. each cell.
3 lbs dist.

	Wt	7.356
7092	Wt	7.368
7093	Wt	7.401

3 | 22125
7375
774
29500
7375
5175
5175
5.7225

7094 Dup 6941 – Except 10 deg
to left 7 flake 86 not thru H –
24 grain 708 from Big drum
21% KOH – 3 lbs wet

To go to Holland to form up using
only half the current density on the
first charge but twice as long
next charges normal rate.

Cracked end Wt 7.323

7095 Wt 7.341

7096 Wt 7.390

3 | 22053
7351
7354
29404
5147
5147
5.68974

7097 Dup 7094

To Holland to form by making 1st charge at 1/4 the normal rate & four times the length of charge other charges to 6 oz at normal rate — 3 lbs wt.

21% Nott.

Wt 7.365

7098 Wt 7.416

7099 Wt 7.375

3)22.15-6
7.385
7.4
29.59
5.695
5.69595
5.7159

7100
Dup 7094
Jars with burs ground offmore
21% KOH, 3 lb wet

Wet

7101 Wet

7102 Wet

7103 Dup 7094

Burns ground nearly all off
21% HCl, 3 Lbs wt —
7108 green Big Drum

Wt

7104 Wt

7105 Wt

7106 Old style dump - green) unpaid on flake
Double Tamped.
10 mlg flake twice as thick 24 mlg 708
Green Big Drum - 3 LB cot.
21% Nett.

Lot

7107 Lot

7108 Lot

7109 Dup 7106 –
Except 21% KOH RUN COLD
Seb

Wt

7110 Wt

7111 Wt

7112 Dup 7106.
Except 2.1% KOH, 2 grams 1.0 [illegible]

LOT

7113 LOT

7114 LOT

7115 Dup 7106 –

Except 21% KOH 2 grms 1 oth.

RUN COL

3160

COF

7116 COF

7117 COF

7118 - Dup 7106 -
Except 15 mdy - Twice thick
flake - 24 grafen —

lot

7119 lot

7120 — lot

Old style - Double T
green dumped on flake

7121 –
21 Hole 005 1½ spiral 86 flake not Burnt.
10 flake 24 J02 green 705 Big Drum. Green
dumped on flake Double Tamps
21% Roth. 3 lbs

lot

7122 lot

7123 lot

7124 Dup 7121.

21% KOH. RUN COLD

	Wt
7125	Wt
7126	Wt

7127 Dup 7121.

21% KOH. 2 gms 1.0%. RUNCOLD

COA

7128 COA

7129 COA

7130 Dup 7121.

21% KOH. 2 grms L. OH.

Wt

7131 Wt

7132 Wt

7133 Dup 7121 Except 7 flasks
86- not H, 24 from
21% KOH,

	Cot
7134	Cot
7135	Cot

7136 Dup 7121 Except 7 flake 86
not H.
21% ROH. RUN COLD

Wt

7137 Wt

7138 Wt

7139 Dup 7121 Except 7 flake 86
2% KOH, 2 gms LiOH.

COT

7140 COT

7141 COT

7142 Dup 7121 Except 7 flake 86
Through Hydrogen –
21% KOH.

Wt

7143 Wt

7144 Wt

7145 Dup 7121 except 7 flake 86
Throughout —
21% KOH, RUN COLD

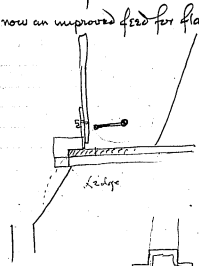
	lot
7146	lot
7147	lot

7148 - Dup 7121 Except 7 flake 86
Throughout.
21% KOH, 2 gm LiOH.

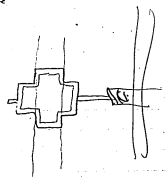
	1 of
7149	1 of
7150 —	1 of

Aug. 6 1907 =

We have now an improved feed for flake



This is the best so far.



We adopt 7 flake as standard — so that is about what 10 of gauze on old feeds way 60ch —
Dumping flake a shadow ahead of green —

7151 =

21 Hole 005 1½ spiral - No 2 green
708 RA Big Drum - Washed a little
to get the white coating off -
boiled all night on board on hot
plate - then 20, of Chem
leached - The white fine hard lumps
picked out - 86 flake not through -
3 lbs wet - 7 fl 24 green -
21% KOH -
#6 ¾ hole hot through, H Wet 7,289
Charged iron #1029A
7152 Wet 7,252
7153 Wet 7252
3)21793
7264

10 Dumps about green grown 234 -
with 7 f charged Iron 23.3% flake -

5162 7264
774
29056
50848
538448
5162233

7154 = Dup of 7151

Except the #2 drum green washed more & cooked by fingers to get attention to detach the fine white flour on particles – Dried on Asbestos 1/2 steam plate.

#86 Flake Not through H.
Big iron #1029A Wt 7.313

7155 Wt 7.381

7156 Wt 7.273

21967

10 dumps of above green gives 23.5

3) 21967
7322
777
29288
51254
5.1254
5.667222

7157 Dup 7154

Except 21% KOH RUN COLD

#86 J. Lake Not through Hp

Elig WOMAX 1129A

WOF 7264

7158

WOF 7258

7159

WOF 7140

3/21662

7221

774

28884

50547

50547

5,58965

7160 Dup 7154

Except 21% ROH 2 grms 1.0#.

#84 flakes not thrown out
lig iron #029A

lot 7.027

7161 lot 7.047

7162 lot 7.164

$$3\overline{)21238}$$
$$7079$$
$$744$$
$$26316$$
$$47553$$
$$49353$$
$$31471$$

7163 - Dup 7154

Except 21% KOH, 2 grms 2.086.

RUN COLD

#84 flaker not thrown H.

Wg wrong 1029.9

Wt 7.193

7164 Wt 7.217

7165 — Wt 7.297

3)21.687

7.229

474

28916

5063

5063

5063

51.595-248

7166 Dup 7154
Same green as inoc — 7154 but use #0 94
Specials flake - which is as near #0 67 or 68
flake as can get it — 7fl 24 green
3 lbs cot.
21% RO#, Chig irons #1029 A.

Lot 7.134

7167 Lot 7.134

7168 Lot 7.176

3 | 21444
7.148
774
28092
50036
50036
5,532552

7169 Dup 7166-7
Except 21% KOH
Seb
Chg iron x10291A

RUN COL II

	Wt	7,130
7170	Wt	7,130
7171	Wt	7,157

3 | 21417
7139
774
28656
49973
49973
5,5255-86

7172 Dup 7166 -
Except 21% KOH, 2 gms 4.0%

7173 COA

7174 COA

7170 Dup 7166

Except 21% Roth, 2 gram lots.

RUN COLL

Cancelled

COF

7176 COF

7177 COF

7178

21 Hole 005 1½ spiral 3 Lbs -
8# flake. 7ft 24 green Ubz
RA 767 ½ wash filtered dried
loco heat.
21% RO#, Green average 23.7 10 drop
Flake 75. 10 drop
lbg inner x 1029A Wt 7.366

7179 Seight heads Wt 7.580

7180 Wt 7.441

3 | 22387
7462
76

44772
52234
5.6711

7181 Dup 7178

Except use 94 special flake
2.1% KOH,
Screen average 23.7
Chg iron #1029A Col 7.592

7182 Col 7.493

7183 Col 7.682

3) 22767
7589
76
45534
53123
576764

5.76-

7184 Dup of 7178 Except $3\frac{1}{2}$ LB cut
707 Ra ½ w filtered from last 7 of 24 grown 84 flake
21% KOH,
Orig wrong #029A

	Wt	7.607
7185	Wt	7.689
7186	Wt	7.501

$$3\overline{)22797}$$
$$7599$$
$$76$$
$$45594$$
$$53193$$
$$5,775-29$$

7187 Dup 7178-
Except 3½ LB cot

+ 94 flake — 707 RA½ w filtered
low heat 21% ROH -
Clig iron 1029 A.

	Cot 7.666
7188	Cot 7.711
7189	Cot 7.722

$$\begin{array}{r} 23\,099 \\ 8\overline{)} \\ 7699 \\ 76 \\ \hline 46194 \\ 53893 \\ \hline 51851^{2} \end{array}$$

7190

21 Hole .005 1½ Spiral, 3½ lbs –
708 RA Big Drum flake off not Thru Hydroquel
plunger .227/1000 dia – Operation 9 (.250)
Dance no 7151 – plunger not hardened
7 flake 24 gross 21% RO# — flake dropped before gross –
Elig in 1029 A.

Wt 7.833

7191 Wt 7.816

7192 Wt 7.787

$$3\overline{)23436}$$
$$7812$$
$$76$$
$$46872$$
$$46884$$
$$5.9371$$

7193 Drip 7190

Except plunger 217-/1000 –

Dig ~~[illegible]~~ 1029 A

Cof 7.599

7194 Cof 7.613

7195 Cof 7.664

$$
\begin{array}{r|l}
3 & 22.876 \\
 & 7625 \\
 & 76 \\
\hline
 & 4575 \\
 & 5337.5 \\
\hline
 & 5,795
\end{array}
$$

7196 = Dup 7190

Plunger 207/1000 –

Cliz irrup 1029 A Wt 7.652
fractured end

7197 Wt 7.651

7198 Wt 7.815

$$\begin{array}{r} 3\,\overline{)\,23118} \\ 7706 \\ \hline 46236 \\ 5394\,2 \\ \hline 5.8156 \end{array}$$

7199 Dup 7190 -

Plunger 197/1000.

Elig increase 029 Cof 7.634

7200 Cof 7.583

7201 Cof 7.687

$$\begin{array}{r} 7635 \\ 9\overline{)22904} \\ 76 \\ \hline 45810 \\ 54450 \\ \hline 3,8026 \end{array}$$

7202

21 Hole 005 $1\frac{1}{2}$ · $3\frac{1}{2}$ lbs —

237/1000 plumper · 73 flake not H.

Cooled in 12% KOH Saturated 1.048, not cooled perfect free of alkali —

7 fl 24 ~~to~~ 708 Big Drum —

21% KOH 1

Flakes Average 7.1

Lig brown #1029A

Green " 23.7

LOF 7.704

7203

LOF 7.797

7204

LOF 7.795

$$3 \overline{)23296}$$
$$7432$$
$$77$$
$$5202$$
$$4$$
$$5.2024$$
$$2$$
$$5,722$$

7205

21 Hole 005 1½ 8½ wt.

217/1000 plunger 84 flake wt

Hyd. Grain — Layer loading

7 fl 24 oz 708 13.17 Grain

Highwood 1029 A Flake Average 7.8

21 & Rort. Green " 23.7

Wt 7.544

7206 Wt 7.563

7207 Wt 7.599

$$3\overline{)22.706}$$

7.569

7.65

37.845

45.414

52.983

5.7902 85

7208

Dup 7205 —

Except 207/1000 plumper —

7 ll 24 green $3\frac{1}{2}$

21% KOH — Flake Average 7.3

Dig number 1029 A Green W 23.7

Wt 7.584

7209 Wt 7.627

7210 — Wt 7.640

$$3\overline{)22851}$$

7617

764

30468

45702

53319

5681.93

7211 –

Drop 7205 –

But hang the 3 grids in steam in steam bath for 2 hours before assembling –

21% KOH, #1029 Alig. liquor

Blake average 7.3

Green " 23.7

7212

7213

KOH 7.512

LCOH 7.473

LCOH 7.506

9)22491
7497
764
29988
44982
52479
517270

7214 =

21 Hole .005 $1\frac{1}{2}$ spiral 237/1000
plunger Regulator – $3\frac{1}{2}$ wt,
84 flake which had been
treated Coiling Dilute HCl
Containing HNO_3 .. washed acid
free = 7 flake 24 708 Big Drum
21% HCl, Drew average 23.7
#1029A lbs iron .. Flakes " 7.4
Lot 7.517

7215 – Lot 7.526

7216 – Lot 9 | 15043
75 21
75 62
15047
15126
5644
5731.00

Flakes Bridges slightly in hopper.
Had enough flake for two months

7217 | 21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ wt 237 plunge
$3\frac{1}{2}$ Midgum No 88 flake's ½ thickness Not
thorough. Hedgehogtow 24" new No 708 Big
Drunk grass —

21% KOH —

Flakes Average 3.7
Green " 23.7
Wt 7.067

7218 Wt. 7.053

7219 — Wt 7.032

Bridges in hopper flakes.

$$3\overline{)21152}$$
$$7050$$
$$865$$
$$35250$$
$$42300$$
$$56400$$
$$6,198225$$

7220 Ocip 7217

Except 217/1000 plunger

Pig iron #1029A Flakes average 3.7
Screens " 23.7
Wt 7.046

7221 Wt 7.091

7222 Wt 7.080

21217

Flake slightly bridges in hopper.

3) 21217
7077
865
3536
3432
4657
4657
6117

7223 -

Dup 7190

Except 245/1000 plunger -

Green Average 23.7

#1129 Hig irons. Bolger " 7.4

Lot 7.877

7224 Lot 7.846

7225 Lot 7.792

3 | 23.51.5
78.38
-76
47.02.8
-46.66
5.48.5
-5.95.8
6.77.7

7226 –

Drop 7223 $3\frac{1}{2}$ cut

Except Layer Loading

with 245/1000 plunger

#1029 #Ehgirous / Screw 23.7

Slope 7.4

Cut 7.804

7227 Cut 7.711

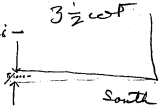
7228 Cut 7.746

$$3\overline{)23261}$$
$$7754$$
$$76$$
$$46524$$
$$25427$$
$$6\ 3.8928$$
$$3.8971$$
$$6.76$$

7229 Dup 7190 —

Regular loading - flake little advance
of Green — 3½ cof
245/1000 plunger —

Prevelled coff 8/1000
#1029 Pliq iron
Green 23.7
Flakes 7.4



	Cof	7.828
7230	Cof	7.748
7231	Cof	7.751

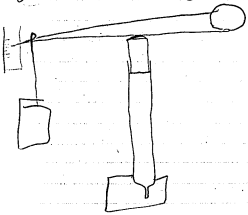
3) 23327
7776
76
46656
54432
51909

7232 = Dup 7190 —

Regular 237/1000 plunger 3½ oz.

One tube loaded – bottom end closed top end not closed

but plug put in & lever laid down with index & then immersed 21% NOH, see how much it dowells.



7233 Dup of 7229-

But bowl set North.

Wt 7.900

Wt 7.843

Wt 7.892

7234

7235

#84 Flake Average 7.4

"Screendrum " 23.7

Chg from #1029A

23 635) 7878 (6.0603

7878

7626

1578

1260

4746

5148

5148

7236

Dup 7229

Bevel set South

lot

7237 lot

7238 lot

Same as #7229

7239 Dup 7229

Bevel set East

7240	Wt	7.685
	Wt	7.670
7241 Cracked end	Wt	7.653

Blake #8 + Average 7.4

Green #3 Brown " 23.7

Cig iron #1029 A

$$3\overline{)23008}$$
$$4669$$
$$762$$
$$533$$
$$1014$$
$$4683$$
$$5366$$
$$5843 7$$

7242

Dup 7229

Barclset West

	Wet	7.880
7243	Wet	7.924
7244	Wet	7.853

3 Wake #84 Average 7.4
of Green #2 down . 23.7
Big mouse #1029 A.

3) 23.65
7.886
7.862
1577
316
4702
55.2
89.3
60

7245 =

21 Holz .005 1½ spiral 3½ cot.
84 flake 7 ft 24 No 1042 Ra
flake = through 20 fuses in – breaks up
smaller charge 20 –
Regular Loading 237/1000 plunger

21% ROH
Green Average 23.7
Filler " 7.4

7246.

7247

Lot 7.358

Lot 7.230

Lot 7.086

3) 21.674
7.225
762
1450
4350
50575
50575
51.505-4

7246

21 Hale 005 1½ 3½ wet –

708 Big Drum lot 8# flake
which has green oxidized
reduced with hydrogen
237 plunger 7# fl 24 green.
Dil 1# of Kaff.
Green Average 24.
Flakes " 7.2
Big Drum $1129.A
7247

lot 7.686
lot 7.549
lot 7.555

3)22790
7597
77
53179
5 – 31799
51849

7250 –

Flake peaks
Cold style stirrer with
wires

7251 =

21 # 005 $1\frac{1}{2}$ $3\frac{1}{2}$ wt.

237 plunger – friction so no bounce

4 Little lighted blocks –

84 of 24 green 7 ft. 708 Big Brown

21% KOH.

Table Average 7.4

Green " 23.7

7252

7253

Wet 7.396

Wet 7.395

Wet 7.474

$$9\overline{)22265}$$
$$9422$$
$$763$$
$$1484\,4$$
$$53$$
$$4454$$
$$5195$$
$$5,655$$

7254 –

21 Hole 005 $1\frac{1}{2}$

84 ft. 705 Big D – 7 ft 24 green

21% Roll.

7 holes average 7.4

Green 23.7

Pkg irons #029A.

7255

7256

11 lb Wt. 1000g

Wt 7.022

Wt 7.149

Wt 7.025

$$3\overline{)21196}$$
$$7065$$
$$762$$
$$1413$$
$$1390$$
$$4239$$
$$4945$$
$$53835$$

7257-

21 Hole, 005 - 1½ - 3½ cut
Rec/237/1000 plumpers No 84 flake
Mill 24 Brew 705 Big Drum
21% KOH, give To Holland To
Change 75 Rate 4500 mah-
cut 100 deg Take Then dis
200 rate ~~[illegible]~~ Cold & Thereof Cir
~~chg + clearing Rec~~
Flake average 7.4
Brew 23.7
Chg irons #1029 H.

Wet 7.927

7258 bracket end Wet 7.985

7259 Wet 7.922

3 | 23.834
7.945
762
589
4770
4715
55
6.0640

7260 =

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237/1000

plenger – flake in advance grown

#108 Big Drum — 7. flake 24 grown

21% ROA — Flake 60/100 matter – made long ago

#65 flake Average. 7.03

Green Average 23.9 231 dumper Wet 7.547

#1029 big irons

#261 236 " Wet 7.498

7262 232 " Wet 7.555

3 flakes feeds poorly

$$\begin{array}{r} 3\overline{)22600} \\ 7.533 \\ 7.765 \\ \hline 37665 \\ 4.5198 \\ 5\overline{)27314} \\ 5.7627 \end{array}$$

7263 = Dup of 7260

But lacquer Loading —

21% KOH —

#65 flake Average 7.0
#7 Green " 23.9 } 242 dup Lot 7.755
#109 # lbg irons

7264 244 " Lot 7.716

7265 248 " Lot 7.688

Flake feeds poorly

$$
\begin{array}{r}
7720 \\
3\overline{)23159} \\
\underline{21} \\
2 \\
\underline{7} \\
7 \\
\underline{6} \\
1 \\
\underline{0} \\
17 \\
\underline{15} \\
20 \\
\underline{18} \\
29 \\
\underline{27} \\
21 \\
\underline{21} \\
0
\end{array}
$$

$$
\begin{array}{r}
6176^{0} \\
5404^{0} \\
5404^{2} \\
6006^{1}
\end{array}
$$

7266 = Dup 7260

Layer Loading
21 lb/o Koth. 2 gonus Litth.

#65 flaked Average 7.0
#2 Green " 23.9
#10299 Chg. none. 238 dumpt Cut 7.610

7267 238 " Cut 7.628

7268 238 dumpt Cut 7.575

Stellar feeds poorly.

$$\begin{array}{r} 2271^{3} \\ 3\overline{)6813} \\ 6 \\ \hline 81 \\ 72 \\ \hline 93 \\ 93 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 5.2997 \\ 5.2997 \\ \hline 5.85-23 \end{array}$$

7269 21 Holes .005 1½ 3½ wt 237 plunger
Reloading flake in advance
Tube clock polished by grinding
83 fl 7 fl 24 grain 708 Bullet Drum
21 ½ KOH
flake average 7.2
#2 Grain " 23.9 / 234 dumped lot 7.596
#1029 Big irons.
7270 / 229 " lot 7.603
7271 / 229 " lot 7.550

3 | 22749
7583
773
9
22749
53081
53081
5.86166

7272

Dup 7269 Except burro downs

7/1000 – Caliper for turbo rock

21-20 Roch.

#83 Peter Cooney

#2 Brown " 239

7273 = 1027 ft Rock

7274

Lot

Lot

Lot

7275

21 Hole 005 1½ 3½ wf 237 plunger
83 flake Gelled 3/4 hour in Concentrated
KOH in Water – Washed so some
KOH left in residual water –
When dry breaking up causes
Cough – 7 ff 24 708 Big
Drink lot –
21% KOH.

Regular Loading
Higher in second

#2 Bar average 23.9
Filler " 7.3 | 239 dumps Wf 7.595
#10 24k Big iron.

7276 236 " Wf 7.680

7277 243 " Wf 7743

$$\begin{array}{r} 7743 \\ 3\overline{)23018} \\ 7673 \\ 766 \\ 46038 \\ 4603 \\ 5371 \\ 5377 \end{array}$$

7278

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ cut 237 plunger
Reg loading flake in advance —
to 97 flake Matte surface
$1\frac{1}{2}$ times as thick as Regular
0001 10 flake 24 to 708
Big Drum lot —
Cobalt 6 case on Drum -
21% KOH —
Flakes average 10.2
Screen " 23.9 | 236 dumped lot 8,237
11298 Big work.
7279 | 233 " lot 8,048
7280 238 " lot 8,203

$3\overline{)24485}$
8163
72
5,7141

7281

21 Hole oos $1\frac{1}{2}$ $3\frac{1}{2}$ - 287 glinger

83 flake treated with D. Pitt $HCl + H_2O_2$

7 lb 24 green 708 Big Drum -

Reg Loading —

21 gr KOH,

3 flakes average 6.8

#2 Brown " 23.9 | 240 dumps WCF 7.430

#1274 Big iron

7282 242 " WCF 7.439

3 flakes were bulky and light.

$$\begin{array}{r} 2\overline{)14869} \\ 7434 \\ 778 \\ \hline 5947\,2 \\ 52038 \\ 52038 \\ \hline 5,7836 \end{array}$$

7284

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237 plunger

83 flake oxidized-reduced by hydrogen

7 flake 24 .10708 Big Drum-

Reg loading - flake nadbrunc green -

21% KOH, 2 grams LiOH each cell -

Flakes average 6.7

#7 Green " 23.9

#10298 lig irons

	244 dumped	Wf	7.622
7285	245 "	Wf	7.753
7286 -	247 "	Wf.	7.667

Seven tooth stirrer used.

$$3\overline{)23.042}$$
$$7.681$$
$$78$$
$$61448$$
$$53767$$
$$8.991$$

* But with present plunger feed on flake. no pocket in slide —

7287 21 Hole .005 $1\frac{1}{2}$ spl $3\frac{1}{2}$ wt 237
plunger - green to feed on top of flake
the same as we did a year ago — *
Use 708 green Big Drum —
83 flake which has been oxidized too
high so it balled some, screened out —
reduced by Hydrogen — its dull matted —
OK = 7 flake 24 green

21% KOH —

Flake Average 7.5	240 dump	Wt	7.771
#2 Green " " 23.9			
7288 #1 02 Big drum	255 "	Wt	7.761
	241 "	Wt	7.557
7289			

Filler packer could only fill 3 | 23.089
upper 7.696
761
7.696
46.176
53.872
5.856.65.6
5,

Filler packer could only fill upper

7290 Dup of 7287

Except 21% KOH 2 gms LiOH —

3" lake average 7.5

2 brew " 23.7

#1021A Mg inoc. | 240 dumped Wt 7.737

7291 250 " Wt 7.680

7292 248 " Wt 7.579

Hopper only half full, flakes packed

$$\begin{array}{r} 22996 \\ \hline 7665 \\ 76 \\ 0 \\ 4599 \\ 5365 \\ \hline 51825 \end{array}$$

7293. Dup 7287 -

Except Layer loading -

21% ROH.

1024 lbs iron

Flake average 7.5 | 238 dump lot 7.594

#2 Brew " 23.7

7294 244 " lot 7.622

7295 239 " lot 7.667

Could only fill hopper 3/4 full, flake packed slightly

$$
\begin{array}{r}
7\,\overline{)\,22883} \\
\underline{7628} \\
7\cancel{6}8 \\
\underline{4576} \\
5\,3392\cancel{8} \\
\underline{5\,797} \\
5.7
\end{array}
$$

Layer Loading

7296 =

21 flake 005 $1\frac{1}{2}$ $3\frac{1}{2}$ = 237 plunger

7005 - 819 Drum - 83 flake oxidized slower at lower heat - then screened - then Reduced in hydrogen dull red longer than previous left in 7295 - $1\frac{1}{2}$ hours in hydrogen

this reduced the stiffness way down as the oxide - its more bulky showing not much fusion of flakes together -

7 flake 24 green

Layer Loading - (14) Dump green Tamp

Dump flake Tamp

21% Roll. | 5 flake average 7.1

green average 239

= 1079 # Orig iron

7297	243 days	left	7.822
7298	241 "	left	7.745
	242 "	left	7.763

$$3\overline{)23330}$$
$$7443$$
$$771$$
$$7443$$
$$52101$$
$$5\ 2\ 1\ 0\ 1$$
$$51738$$

7299 Dup 7296 -
Except 21% KOH. : RUN COLD

	238 duplicate COLD	7.889
7300	235 " COLD	7.859
7301	239 " COLD	7.907

$$3\overline{)23655}$$
$$7885$$
$$771$$
$$7885$$
$$5519$$
$$5519$$
$$5$$
$$60793$$

7302 Drop 7296

Except 21% KOH. 2 grms of KOH.

	236 drops	Wt	7.897
7303	249 "	Wt.	7.978
7304	236 "	Wt.	7.981

$$
\begin{array}{r}
3\overline{)23856} \\
7952 \\
\hline
7952 \\
795 \\
764 \\
5564 \\
5564 \\
\hline
6.1309
\end{array}
$$

7305

Dup 7296-

Except 21% KOH. 2 grms dilutn.

RUN COLD

	236 dilutn	Lot	7.982
7306	235 "	Lot	7.946
7307	235 "	Lot	7.935

3 | 23863
7954
77
7954
7978
5567
5567
6.132-5-3

7305

Dup 7296

Except 707 grew 1/2 wash filtered
Dried low heat!

21% ROH,
Filter average 7.1

4177 brew " " 23.9 | 230 dumps, LOH 7.977
#10294 big irons 223 " LOH 8.005
7309

7310 — 21.9 " LOH 7.990

3 | 23972
7991
771
7991
7937
5597
5 | 5593 | 061
6161

7311

Dup 7296 -

Except 707 RA's work of filled
dried low heat.
To be given to Holland to
Charge 75 milamp ratio - 4
de-charge Reg or Reg throughout,
then H at Rest

Blake average 7.1
10294 Alig irons. 223 dumps LOF 7.824
Green average 23.9
7312 214 " LOF 7.801

7313 211 " LOF 7.902

$$\begin{array}{r} 3\overline{)23527} \\ 7842 \\ 771 \\ 7842 \\ 7894 \\ 5489 \\ 5489 \\ \hline 6046 \end{array}$$

7314 –

Layer Loading

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237

708 Big Drum – flake 95 which has been in very dilute HCl or 3 drops platinic Chloride – its darkened it – possibly makes it a little lighter, 95 is the brittle flake –

7 fl 24 green

21% HOH.

7 flake average 7.1	233 dumped	Cof	7.519
7 green " 23.4			
7315	235 "	Cof	7.543
7316	237 "	Cof	7.556

= 1029# Big iron.

7 flake feeds very good.

3 | 22618
7539
767
5273
5273
4523
4773
5 2780
5.7820

7317 Dup 7314

Except flake no 99 —

Flake average 7.2

#12 Green " 23.4

#1029A Big iron.

244 dumpe Wt 7.799

7318 235 " Wt 7.724

7319 232 " Wt 7.703

3) 23226

7742

767

5419

4645

4194

5419

3811

519

7320 Dup 7314

Except flake to 101 blended with Cobalt,

Bilder average 7.4
#2 Screw " 23.4
#1029 Mig iron.

232 sample lot 7.662

7321 238 " lot 7.659

7322 236 " lot 7.643

Bilder feeds good.

3) 22964
7655
76
45935
35858
5817

7323 Layer loading –

21 Hole .005 1½ 3½ 245 plunger
24 green 708 Big Drum –

Flake No 65 7 of 24 green

Use the tubes that have been ground to thickness of coke of 7/1000 –

Weber average/69.

#2 Brew " 23.4/249 dump Wt 7.539

#1029 Big run

7327 243 " Wt 7.600

7325 244 " Wt 7.697

The grids showed green in the perforations

3) 22836
7612
767
53284
5672
45284
5.3284
5.1384

7326

21 Hole 005 1½ 3½ 237

705 Big Drum flake 84 which has Bismuth reduced on it by Nitric Bi, a Hot-Hot —

7 fl 24 g —

21 g/Roth — 239 dumps, cracked end Wet 7.815

7327 243 dumps Wet 7.851

7328 242 " Wet 7.789

Ye lakes average 7.2

#2 Lineau " 23.4

#10294 Big irons.

Ye lake seems to be stuck in layers

23.45 / 9

7818

767

5472 6

5908

4692 6

5472 0

59964

511

7329

21 Hole 5/1000, 1½, 3½ wt 237 Plunger.
24 Green big drum 708
7 Blake # 99½ Layer loading

21% KOH. 7 flakes 24 green.
Flake average 7.1
Green " 23.4 | 239 dumper wt 7.646
1029A Chg irons

7330 Broken end 238 " wt 7.611

7331 236 " wt 7.638

$$3\overline{)22.895}$$
$$7.632$$
$$767$$
$$534\,24$$
$$457\,9$$
$$534\,24$$
$$5.85\,3\,744$$

7332

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237 plunger

Layer Loading —

24 x 07/8 Big Drum —

83# which had previously been treated with dilute KOH, but again treated with HCl & dilute arsenious acid — its coated with Mechlis arsenic OK = 7 flake

Sleeve Average 7.0

21% KOH —

#2 Screw average 23.4 #234 plunger

= 1029 lb/g. wave

7333 .236 " Wt 7.640

Wt 7.658

$23\overline{)15298}$

7649

77

533-43

533-43

51889

7334

Seeds good. Only enough for two

$\begin{array}{r} 7.0 \\ 23.4 \overline{)23400} \\ 2340 \\ \hline 2340 \end{array}$ (77

7335

Dup of 7332. Layer

Except 88 flake treated with
Tersulphate Antimony + HCl dilute Hot
= Its dark flake –
21% KOH.

#2 Green averages 3.4 | 240 dumps Wt 7.663
3 flakes " 7.3 |
7336 235 " Wt 7.643

7337 Wt 7.6306
Enough flake for two tubes. 7.663
#1029 Chg. tubes

7.6306
7.663
.762
.3306
.4578
3.3571
3.1831

7338

Dup 7332

Except 83 flake treated with Bichromate K + HCl dilute, It causes it to become bright like silver + glassy —

21 % KOH

#1 flake average 7.2 | 249 dump

#2 Green " 23.4 | 244 "

7339

7.720

7.694

2 | 15414
7707
762
15414
46242
53949
5.8727

#1 = 1000 hellig more.
Enough flake for two.

7340

Dup. 7332

296KOH

Except palladium flake - 94f

3 flakes average 7.2 / 242 dumped wt. 7.7448

=2 Green " 23.4

7341 245 " Wt 7.696

7342 244 " Lost 7.612

#1029 Big iron.

$$\begin{array}{r} 23\,066 \\ \hline 7\,689 \\ 762 \\ \hline 1\,537\,8 \\ 4\,613\,4 \\ 5\,382\,3 \\ \hline 31\,859\,01 \end{array}$$

7343

Dump 7332

c. 70KOH Except Rhodium flake

94 fl

Flake average 7.4

#2 Green " 23.4 240 dump cat 7.718

#1029A Bligrous.

7344

236 " Cat 7.718

$$\begin{array}{r} 7.718 \\ \hline 2\,\big)\,15.436 \\ 7.718 \\ \hline 7.62 \\ 15.436 \\ 1.508 \\ 6.326 \\ 4.026 \\ 5.4 \\ 5.8811 \\ 5.1 \end{array}$$

7345-

Dup 7332

Except Iridium flake

f94 =
21% KOH.

Flake average 7.0

" 2 Green " 23.4/24 dumpment 7.590

" 1029h Lig iron.

7346 237 " cut 7.599

7347 230 " cut 7.597

23786
7929
777
55503
53673
61053

7348

21 Hole 005 1½ 3½ 237 plunger
No 150 2 punctual flake 8 p. Calif. Lodo.
grey 7 flake 24 green 708 Big Drum -
Layer Loading

21 % KOH,
3 Cakes average 7.3 | 226 dumps Cof 7.557
#7 Cream " 23.7 |

7349 224 " Cof 7.634

7350 223 " Cof 7.612

#10294 Illinoma
3 Cakes seems to be soft.

3)22803
7601

7601
762
5
38 08
36 06
43 07
53 17
5 81 17
3 1

2373
237
310

2370 (7.65
21 00
38 00
1

7357
Dup 7348

Except use 708 green Big Drum
that Edwin soaked in slaking
Oxalate Dummith. Washing then
drained off & boiled in ROH,
washed & dried — 24 green
7 ft No 100 —
21% ROH.

Filter average 7.3
fes green " 24 · 240 dumpf COH 7.660
1.0294 Big iron.

7352 237 " COH 7.559

7353 241 " COH 7585

3 | 22804
7601

73
240
3 18

7354

Dup 7348

Except 21 % NOH 2 grms. 1.0 H. Each cell

I take average 7.3

#2 Green " 23.7

#1029 A Chg irons. 223 dumps COP 7.601

7355 221 " COP 7.601

7356 221 " COP 7.579

3 | 22.781
7.594
7.60
37.970
4.53.64
5.3158
5.8094

7357

Dup 7348

Except 21% KCH 2 grams ✓.10H each cell

RUNCOLD

Flake average 7.3
#2 Gray " 23.7
#1029 Alkg iron

223 dumped LOP 7608

7358 227 " LOP 7712

7359 225 " LOP 7756

$3\overline{)2307}$ 6
7692
765
3846
3842
4615
5844
5843

7360
Dup 7348

Except 2.5% ROH. 2 grms 1.0 OH

Each cell —

+2 Bean average 23.7 / 225 dump left 7.711

3 lake " 7.3

7361 222 " Cof 7.705

7362 224 " Cof 7.704

3 | 23120
7706
765
30
5
36
42
50
6
5394
4623
7706
3.89

7363

Dup 7348

Except green dumped on flake —
old way - Double tamps —
21½ KOH.

3 lots average 7.3
#2 Dreary " 23.8 237 dump Wf 7.775
#1 29A Hig iron.

7364 227 " Wf 7.833

7365 222 " Wf 7.743

$$3\overline{)23351}$$
$$7784$$
$$765$$
$$3892$$
$$3704$$
$$4678$$
$$5448$$
$$5.9547$$

7366
Dup 7348

Green dumped on lake-side
way — Double Tamps —
210 lb. KOH, 12 gms 1.04 Each cell
5 lake average 7.3
#2 Green " 23.8224 dumped lot 7.813
#10291 Eliginou
7367 219 " lot 7.723
7368 216 " lot 7.775

3) 23311
7770
765
30
3885
4640
4390
5430
5.9442

7369

Dup 7348

Green dumped in flake old way

Double tamps

21% NOH 2 qrms 1.0# Each cell.

#2 Raw average 238 RUN COLD

5 Flake " 7.3

1029A Blg mous 231 dumps lot 7.887

223 " lot 7.711

222 . lot 7.680

7370

7371

$$\begin{array}{r} 2327.8 \\ \hline 7759 \\ 765 \\ \hline 3879.5 \\ 3655.4 \\ \hline 4313 \\ \hline 5935.63 \\ \hline 5.9 \end{array}$$

7872 Lager Conditioning

Dup 7345 —

Except use 3 lb lot ✓

21% KOH —

#2 Brew average 23.8

Flake " 7.3 / 217 dumped lot 7.499

#1029A. Big mouse

7873 217 " lot 7.515

7874 216 " lot 7.552

3 | 22566
7522
765
0
3761
3
45132
5265 4
5175 43

7375 Langer Laundry

Dup 7348

Except 3 lbs +

21% KOH 2 grains Left Each cell

Sl. blue average 7.3

#2 brown " 22.8 221 dumps Wt 7.242

#1 only blg brown.

7376 226 " Wt 7.332

7377 225 " Wt 7.306

21880

3 | 7293

765

36465

4375

5,051 | 4

3,579 1

Langer Lawrence

7378

Dup 7348

Except 2½ lbs —

219 / Kott.

7.8 average 7.2
7.8 Brown " 238
4 weighing wrong

7379	222 dunnage	lot	7.205
	224 "	lot	7.159
7380	219 "	lot	7.136

3 | 21500
7166
763
3383
3996
4292
5016
9
5.481

7381

Dup 7378

$2\frac{1}{2}$ lb coff —

21 ½ KOH, 2 grms LiOH, Each ccc

#2 Brown average 23.8

#1 lake " 7.2

#1029 Alkyjrone " 219 dumper Wet 7.133

7382 224 " Wet 7.183

7383 227 " Wet 7.190

21506
7169
763
3584
3014
4183
5014
5484

7384
21 Hakcos 1½ 3 lbs —
Dump green on flake old way
Doubled Tamps - 708 Big Drum
7 fl 100 - 3% Coppi — 7 fl 24 g

21 g/o R O H.
5 flake 7.2
#2 Green) 23.8 | 224 dumps LOF .7359
#1029A Blg wrong | 232 " LOF 7.415
7388

7386 234 " LOF 7.430

3 | 22204
7401
763
3706
4447
5140
5.661

7387

Drop 7384 3 LGs

21% KOH 2 grms KOH 7.1 cl cell –

#2 brew average 23.8

Flake " 7.2 / 22 blumpse LOP 7.405

#1029 lbg iron.

7386 22x " LOP 7.359

7389 22x " LOP 7.302

3 | 22.0.6.6

7355

765

3675

4413

4485

5.1626

5

7390

Drop 7384

Except $2\frac{1}{2}$ lbs wet

21.0 KOH —

#2 Brew average 23.8 / 217 drops wet 7.155

#3 Lalee " 7.7

#1294 Pig irons

7391 / 218 " wet 7.121

7392 223 " wet 7.211

9 | 21487

7162

7630

3581

3972

4294

5013

5.4789

7393

Dump 7384 — 2½ lb. wt

21 o/ KOTT 2 gms Lidotts Gaidiecell

#2 Green averages 23.8

#3 Baker " 7.2

#1029 Big iron

230 dumper wt 7.201

7394 229 " wt 7.179

7395 222 " wt 7.139

$$\begin{array}{r} 3\,\overline{)21519} \\ 7173 \\ 765 \\ \hline 3586 \\ 3038 \\ 4311 \\ 5021 \\ \hline 5487 \end{array}$$

7396

Dup 7384 2 lbs 2 oz
Except ~~7.03~~ LOS WCF.

21 w/o KOH

#2 Increase average 23.8
Strikes " 7.3 / 217 dumped WCF 7.036
#1039 A 8 lb 3 oz more.

7397 208 " WCF 6.993

7398 216 " WCF 7.010

$$
\begin{array}{r}
3\overline{)21039} \\
7013 \\
\hline
7\overline{)65} \\
0 \\
\hline
33\overline{)078} \\
2 \\
\hline
49\overline{)091} \\
4 \\
\hline
5\overline{)364} \\
1
\end{array}
$$

7399

Dup 7384 2 lbs 2 oz lbs coal

21 x 10 x 0 lb. 2 grms 2.0 lb. Equivalent

= 1024 A lbs iron.

= 2 Grams drange 23.8

Flake " 7.3 221 dump coal 6.950

7400 222 " coal 6992

7401 222 " coal 7.074

21016
7005
763
35 02 5
20 30
4 03 5
49 8
5.35

Aug. 24, 07.

While I am away

Make 3 groups of Each
of Greenlys flake

1 group - 3½ 237 - 7f 24
708 grain 21% Lauer Loading

another group 21% KOH 2 gms
LiOH

another group 21% NaOH 2 gms
LiOH RONCOLI

Save a sample of
Each flake

7402 Layer loading.

Duplicate of 7348.
Except let soak 4 hours before putting on charge

Flake average 7.2
#2 Green " 23.5
#1029A lbg irons

224 dumped wt 7.442

7403

226 " wt 7.432

229 " wt 7.442

7404

3)22316
4439
765
37195
44634
52073
3690

7405 Duplicate of 7348

#91 flake Larger loading

#2 Brew average 23.8

Flake " 7.1 226 dump wt 7.447

#1029 A Big insu

2106 KOH

7406 221 " wt 7.424

7407 223 " wt 7.464

7 flake seems to be brittle

wt the long hairy kind.

$$\begin{array}{r} 7.22335 \\ \hline 7 \overline{)} \\ 7445 \\ 765 \\ \hline 37225 \\ 44670 \\ 5215 \\ \hline 5 \overline{)} 6954 \end{array}$$

7408 Duplicate of #7405

Except

2% KOH. 2 gms Li OH.

Flake average 7.1

#2 brew " 23.8

#1033 Big iron.

221 dumpe wt 7.392

7409 222 " wt 7.507

7410 220 " wt 7.49

3 | 22318

7439

7411 Duplicate of #7405
Except 2% KOH 2 gms LiOH.
Run hold.

Elec. average 7.1
#2 Incen. " 23.8
#1033 Elig. irons.

	223 dumps	wt	7.417
7412	226 "	wt	7.445
7413	224 "	wt	7.408

3 | 22270
7423

7414

2 Flake 5110.00 3 1/2 wt 237 Plunger
105 ¾ flake Layer Loading
Flake 7 + 24 #½ Big drum Sheet
2 oz KOH

2. green averages 23.8
flake. " 7.5

1033 Big iron 221 dump wt 7.482

7415 220 " wt 7.569

7416 221 " wt 7.479

$$3\overline{)22530}$$
$$7510$$
$$765$$
$$3750$$
$$3060$$
$$4500$$
$$2570$$
$$5\overline{)2571}$$
$$5.745$$

7417 Duplicate of #7414
Except
21% KOH. 2. gms LiOH each cell.

	221	dumper wt	7.550
7418	221	" wt	7.501
7419	219	" wt	7.512

3 | 22563
7521

7420 Duplicate of #7414
Except 2% KOH 2 gms LiOH
each cell Run Cold.

	218	dumps	wt. 7.502
7421	216	"	wt. 7.512
7422	219	"	wt. 7.548

3)22562
7521

7423.

21 Hole 5/0000 3½ wt 237 Plunger

105A flake Layer Loading

flake 7 H 24 #2 Big drum green

21% K.O.H.

#2 green assayed 23.8

flakes " 7.3

crushed end 219 dump wt 7.535

1033 Big iron

7424 214 " wt 7.476

7425 216 " wt 7.520

3/22531
7510

7426 Duplicate of 7423

Except

21% H_2O_2 2 grams Lia H each Cell

cracked end	222 chunks,	wt	7.508
7427	222 "	wt	7.629
7428	220 "	wt	7.587

$$\begin{array}{r} 22674 \\ \hline 3)\ 7558 \\ 765 \\ \hline 79 \\ 3779 \\ 4534 \\ 4906 \\ \hline 5290 \\ 5781 \\ \hline 57 \end{array}$$

7429 Duplicate of 7423

Except 21% KOH, 2 grams LiOH in each cell Run Cabot

218 tamped wt 7.543

7430 corrected wt 220 " wt 7.563

7431 221 " wt 7.553

$3\overline{)22659}$
7553

7432

211 lbs 5/000 $3\frac{1}{2}$ lb wt 237 Plunger

100A flake Larger loading

flake 7 # 24 # 2 Big drum green

21% K.O.H.

3 green average 23.8

flake " $7.0\frac{4}{5}$

1033 Cfg iron 223 dump wt 7.461

7433 221 " wt 7.469

7434 223 " wt 7.462

$$\begin{array}{r} 7\,\overline{)\,22392} \\ 7464 \\ \hline 765 \\ 320 \\ 84 \\ 478 \\ 224 \\ \hline 5709 \end{array}$$

7435 Duplicate of 7432

Except

21% KO.H. 2 g LiOH. each Cell

234 dumpout 7.542

7436 232 " 2wt 7.455

7437 232 " 2wt 7.455

3)22452

7484

7438 Duplicate of 7432

Except

21% KOH. 2 g Lio H. each Cell

Run. Calcd

231 dumpies wt 7.500

7439 228 " wt 7.458

7440 225 " wt 7.435

3)22393

7464

7441 Big machine,
21 hole .5/1000 Rogers ground to 10/1000
24 pieces big drum 7 flakes #65
Lager loading. Long tubes

2.156 KOH. wt 11.748

7442 wt 11.490

7443 wt 11.563
Put up with 4 big irons #1033

$$3\overline{)34801}$$
$$11600$$
$$765$$
$$5800$$
$$560$$
$$690$$
$$612$$
$$8.674$$

7444 Duplicate of #7441
Except 2% KOH. 2 gms LiOH each cell.

wt 11.614

7445 wt 11.648

7446 Cracked and wt 11.811

3 | 35073
11691
765
5846 5
1014
7837
8.1436 1
8.943

7447 Duplicate of #7441
Except 2% KOH 2 gms LiOH each cell
Run Cold.

wt 12.063

7448 wt 11.576

7449 wt 11.218

3 | 34857
11619
865
5809
5714
6933
8138
8888

7450 #107 Flake made on small drum.
Greenley #107 flaked Fayn loading
5|1000 21 holes stock 3½ lb wt 237 plunger.
24 big drum #2 Green 7 #107 flakes.
21 % KOH.
Flaked average 72. | 240 dump wt 7.642
#2 Green " 24.2
7451 236 " wt 7.551
#1033 big mouse.
7452 233 " wt 7.561

3|22754
7585
765
37925
4551
53095
8.8025

7453 Duplicate of # 7450
Except 2% KOH. 2 gms LiOH.

234 dumper wt 7.560

7454 236 " wt 7.535
Only enough flake for 5 tubes.

2) 15095
7547

7455 5/1000 21 hole stock 3½ wt 237 plunger.
Lot #105A Oxidized then run through
hydrogen. 216 KOH Fogel loading
Flake average 7.4
#2 brew " 24.2
#1033 Pig iron. 229 dumper wt 7.755

7456 236 " wt 7.898

7457 236 " wt 7.856
Plunger packs flake hard in tube.

3/23509
7836

flake was oxidized very lightly to Peacock tail
Color 10 undersement —
Reduced by H. below red + 2½ hours small
amount Hydrogen — No sticking — Can be
alone This was very perfect = after H. micro
shows very fine worm hole surface —

7836
766
47016
47016
4852
5485
6002

7458 Duplicate of #7455
Except 2% KOH. 2 gms LiOH.

232 dumper wt 7.773

7459 227 " wt 7.824

7460 228 " wt 7.861

$3\overline{)23458}$
7819

7461 Duplicate of #7455

Except 2.76 KOH 2. gms LiOH.
Run Cold.

228 dumper wt 7.828

7462 226 " wt 7.834

7463 227 " wt 7.870

3)23532
7844

7464 Dup 7455

23% KOH, one gms of 1 Off, Each calf.

225 dump wt 7.883

7465 228 " wt 7967

7466 — 226 . WT. 7943

$$3\overline{)23793}$$

7931

766

7586

47586

4754

55514

6,075

7467 2 hole 5/1000 Stack 3½ lb wt 237 Plunger
Layer loading #2 Big drum green
#107 flakes 7 ~~24~~ green
21.6 K O H.
Average flakes 7.1
" #2 green 24.2
= 1.23 lb grains.
7468

7469.

234 dumper wt 7.577

238 " wt. 7.517

235 " wt. 7.526

$$3\overline{)22620}$$
$$7540$$
$$765$$
$$00$$
$$3770$$
$$4524$$
$$5280$$
$$5.7681$$

7470 Duplicate of #7467
Except 2% KOH. 2 gms LiOH.

233 drops wt 7.492

7471 238 " wt 7.573

7472 233 " wt 7.555

3/22620
7540
765
3700
4574
4280
5280
5768
5.768

5

7473. Duplicate of # 7467
Except 2.96 KOH. 2 gms Li_2O.
Run hold.

235 dumps wt 7.487

7474 232 " wt 7.495

7475 236 " wt 7.566

$3\overline{)22548}$
7516

5.76

7476

21 Hole 005 1½ spiral – 237 –

99½ oxidized peacock flake Copper

Loading – 7 fl 24 green 708 Big lot

3 lbs CO2 gas –

21%

#2 Green average 24.2

Flake " 7.3 / 230 dump lot 7.633

#1033 Big iron

7477 224 " lot 7.654

7478 224 " lot 7.670

3 | 22957
7652

7652
765
6121
45912
53564
5876

242
73 / 2420 | 16.8
31 / 2205
150
149 98
2 32

7479 Dup. 7476

2½ lb cof

	225 dunker	cof.	7.462
7480	222 "	cof	7.461
7481	223 "	cof	7.543

3 | 22466
7489
768

59912
44934
44923
52423
5175 15

7482

Dup 7476

~~2~~ lb weight — 2 lb 2 oz.

226 dumped lot 7.406

7483 224 " lot 7.343

7484 220 " lot 7.300

3 | 22049
| 7349
| 768
5 8792
4 4094
4 4443
5 1 6 4 4 0 3

7485 —

Dup 7476

3 1/2 lb wet 10/31 / green

No. 86 from Recent Surface

1/2 week not fit air dried

#1031 Green average 24. 245 dumped wet 8.112

Slaked " 7.3

#1033 blig. iron.

7486 238. wet 8.042

7487 237. wet 8.051

Green was heavy.

7488 Dup 7476

3½ cut.

J P Devine green

Vacuum Dried

J.P.D. Drainwater 24.3
Flaked " 7.3
41033 Chg iron.

232 drops Cut 7.517

7489 226 " Cut 7.480

7490 221 " Cut 7.399

3)22396
7465

5.64

7491 Drip 7476 –
3½ wet
Ra 714 green

Rg. 714 Green average 23.8
Slaked " 7.3
#1033 big issue. 220 dumper Wet 7.206

7492 211 " Wet 7.123

7493 — 206. Wet 7.096

Green acted a little sticky in the [illegible] 7142

7494 Dup 7476

3½ wet Ra 707 green

Ra #707 Green average 23.7
Flaked " 7.3
#1023 Illiginous. 272 dumped wet 8.620

7495 260 " wet 8.478

7496 264 " wet 8496

Green is heavy

$$
\begin{array}{r}
3\,\overline{)\,25594} \\
8531 \\
764 \\
\hline
34127 \\
86 \\
\hline
51117 \\
59717 \\
\hline
6.5176
\end{array}
$$

7497 - Layer loading.

21 Hole .005 $1\frac{1}{2}$ $3\frac{1}{2}$ cut

#99½ 7 flakes Oxidized - 24 grain
708 Big Drum Copped by immersion in
Sulph. dried then KOH, heated &
percolated out -

21% KOH, 2 grain LiOH Each cell

#1½ lb average 7.2
Gram = 24.6 247 dumper Wt - 8.136
#1033 Higgins.

7498 — 240 - Wt - 8.035

2)16171
8086.
766
48516
48516
56602
6.173 87

✓

7499 - Dup of 7497

Except green lean Copper precipitated in A and 16 Cackened

21% Not

#99½ Flake average 7.2	242 dumped Not		7.760
Green " 24.2			
7500	246 " Not		7.729
7501	242 " Not		7.640

3 | 23129
7709
7680
4625
4625
4625
4625
53963
53963
51903

7502 Dup 7499 -

21% NaOH - 2 grms 5.0 cc,

242 dumpa Cot 7.637

7503 240. Cot 7.630

7504 242. Cot 7.674

3 | 22941
7647
762
4582
4582
4582
5352
5352
5352
0
0
0

7505

21 Hole 005 $1\frac{1}{2}$ sph $3\frac{1}{2}$ wt –
7 lb 24 oz 708 bag drum which has
been boiled in Conc KOH, washed & dried.
flake 100 A which has been oxidized higher
than Peacock & reduced in hydrogen.
21% KOH – Lower Recording

Drum passage 243
Flow Sheet " 6.9
#1032 Dig. inns.

7506	247 drums	Wt	7.977
7507	244 "	Wt.	8.047

$$3\overline{)24.023}$$
$$8.008$$
$$75$$
$$24064$$
$$56056$$
$$6.2662$$

7508 Dup of 7505 with Reg 708
No 2 green big Drum — 24
7 flake 100 A, oxidized higher than
Peacock — (gray)

7 flake average 69			
22 drum " 241	248 dumped	Cof	7.756
10 33 big irons			
7509	251 "	Cof	7.723
7510,	232 "	Cof	7.689

3 | 23168
7723
78
61984
54061
6023

7511

Dup 7508

21% KOH, 3 grams Lithium Chloride

Each cell—

	246 dump	Wet	7.662
7512	250	Wet	7.708
7513	245	Wet	7.652

3)23022
7674
8
2
6139
5.3718
19557

7514 Dup 7508

21% KOH, 5 grms Lithium Chloride in each cell — 100A oxidized higher than Peacock —

245 dumped Cof 7.646

7515 242 · Cof 7.723

7516 241 · Cof 7.696

$$3\overline{)23065}$$
$$7688$$
$$\cancel{78}$$
$$\overline{65504}$$
$$\overline{5381664}$$
$$\overline{5.996}$$

7517 - Dup 7508

21% ROH. 10 grms Lithium Chloride
Each cell —

	238 dumper	Wt	7.709
7518	Soaked and 239	Wt	7.638
7519	242	Wt	7.642

$$3\overline{)23.059}$$
$$7.686$$
$$19$$
$$6148$$
$$5380$$
$$7.95$$

7520. Dup 7508

Water saturated with LiOH.
Containing 3 grms of Lithium
Chloride in each cell —

240 dumps LOP 7.671

7521 242 " LOP 7.610

7522 242 " LOP 7.627

3 | 22908
7636

78
78
61088
53452
5.9560

7523

~~Drop 7~~

21% .005 1½ 3½ - 10 flake
24 green 708 big Drum
flake 100A oxidized higher
than Peacock

21% Rott

Flake average 9.9
72 green " 24.2
#1033 Big green
7524

229 sample Cost 8.025

232 . Cost 8.120

7525 — 234 . Cost 8.101

3 | 24246
80 82
7½
80 82
565 7⅓
8 2
5 17 3

7526

Layer loosing

21 Hol 2 005 $1\frac{1}{2}$ $3\frac{1}{2}$ tubes oxidized to dark grey - then reduced with hydrogen Same as flake - not distorted very matte surface a COF -

7 flake 100 A, oxidized to dark - 24 NO 708 Big Shini -

21% ROH

Flake average 7.4

#2 Green " 24.2

#1033 Chiginour

242 dumper COF 7.775

7527 240 " COF 7.814

7528 237 " COF 7.811

$$\begin{array}{r} 3\overline{)23400} \\ 7800 \\ \hline 7800 \\ 7800 \\ \hline 0 \end{array}$$

765 .

$$\begin{array}{r} 3900 \\ 4680 \\ \hline 5460 \\ 5967 \\ \hline 0 \end{array}$$

7529 Dup 7526

21% KOH 2 grms 2.0 ott

245 drops Cot 7.815

7530 244 " Wt. 7.703

7531 — 242. Wt 7.738

$$3\overline{)23256}$$
$$7.752$$
$$765$$
$$38760$$
$$4651 2$$
$$54264$$
$$51930 2$$

7532

This 7499 Duplicated

21% ROA1 but 100A black ^ ordy black

3 later average 7.4

#2 Green " 24.3

#1033 Chiquiroz 244 dumped Wt 7.795

7533 239 - Wt 7.674

7534 234 - Wt 7.705

3 | 23174
7723
765
3862
4635
4075
5,9096

7535 Layer loading

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ - General

flake orange black 7 mfg

~~Dr~~ 02 green 708 Big Drum

Soaked in 12 gms Cerium sulphate, only ½ dissolved - soaked ½ hour - poured off - Dried - Boiled with 10% KOH, Then washed free of KOH to Litmus by Hot water - dried -

7 flake 24 green

21% KOH

Green average 24.4 / 21 dumped lot 7.539

Yellow " 7.3

7536 227. lot 7.576

= 1333 Chg room

7587 228. lot 7.513

$$\begin{array}{r} 226\,28 \\ 3\overline{)7543} \\ 27 \\ 52801 \\ 52801 \\ 58001 \end{array}$$

$$\begin{array}{r} 24.4 \\ 7.3 \\ \hline 31.7 \end{array} \quad \begin{array}{r} 2440 \\ 2190 \\ 2219 \end{array} \quad (77$$

7538 - Dup 7535

2% KOH, 2 grams LiOH each cell

227 dumps Cof 7524

7539 222 - Cof 7.462

7540 225 - Cof 7.511

$3\overline{)22497}$
7499

7541 Dup 7535

But given treated with
12 gm Uranium Sulphate - only 1/2 dissolved
#1133 Big vana
2146 KOH.
151 lakes average 7.3
Green " 24/200 dumped lot 7.679

7542 231 " lot 7.690

7543 235. lot 7.732

3 | 23101
7700
766
46200
46200
53794
51894
2400
73
31 | 2400 | 766
2191
2094
1879
21

7544 Dup 7541

21% KOH, 2 gms LiOH.

	232 dumps Lot	7.727
7545	222 · Lot	7.676
7546	230 · Lot	7.661

7547

Dup 7535

Bud green breaded with 12 grms Sulphate Cobalt

2½% KOH

Filter average 7.3

1 new " 24.3 231 dumpy lot 7.528

41.03 Dry wave

7548 227. lot 7.512

7549 225. lot 7.504

3 | 22544
7.515

24.3
9.3
31

24.30 | 76.9
22.12
2.186
1.869
2.84

7515
769
67630
45090
52605
57790

7550 Dup 7547

2% KOH. 2 gm 2.0 gl.

222 dup. Col 7.460

7551 222 " Col 7.505

7552 222 " Col 7.455

$$\begin{array}{r} 7.455 \\ \hline 3\,\overline{)\,22420} \\ 7473 \\ 769 \\ 7 \end{array}$$

7553 Dup 7535

But green treated with
12 gmd Ferrous Sulphate
Oxidized with some H_2O_2
probably not Enough —

21% KOH,

% Coke average 7.3
Green " 24.5
#1133 liquor

24' dump Lot 7.678

7554 247 " Lot 7.664

7555 239 " Lot 7.703

$$\begin{array}{r} 3\overline{)23045} \\ 7682 \\ 77 \\ 53774 \\ 53774 \\ \hline 5915 \end{array}$$

7556 Deep 7553.

21% KOH, 2 grms LiOH,

232 drops COH 7.641

7557 234 " COH 7.724

7558 228 " COH 7.623

7559 Dep 7553

But green treated 12 grms
Cadmium Sulphate —

21 o KOH.

5 later average 7.3/226 dumps COP 7.472

Brew " 243 225 . COP 7.620

#1033 Chigiron

7561 223 . COP 7.584

$$\begin{array}{r} 3\,\overline{)\,22676} \\ 7559 \\ \hline 77 \\ 52913 \\ 52913 \\ \hline 8204 \end{array}$$

7562 . Dup 7559

21% KOH 2 grms LiOH,

218 dumpf Lot 7507

7563 219 . Lot 7493

7564 221 . Lot 7509

7565 Dep 7535

But green treated 12 grms Magnesia Sulphate

24/o Kolf

Filter average 7.3

Green " 24.1

#1033 Chyrium 248 sample Kolf 7.670

7566 25 Kolf 7.736

7567 241 Kolf 7.674

7 | 23080

7693

767

53851

46158

5385.3 767

8.90053

7568 Dup 7565

21% KOH 2 grms 20 cc,

234 drops Cop 7.587

7569 231 " Cop 7.664

7570 233 " Cop 7576

The End

Notebook, N-10-12-00.2

7571

21 Hole 005 1½. 3½ General flake
oxidized blacker than 100A – Red 64 th – 24
No 2 708 green wet with strong fluorescence
of phosphorescence graphite, dried & powdered –
Black acc 0081 7 flake –
24 green – lumpy where only particles stuck to
exterior not well covered –

21 c/o ROA, 242 dumper Lot 7.815

7572 238 " Lot 7.876

7573 242 " Lot 7.804

Flakes average 7.4
Stream " 23.8
#1033 Chiquone

23495 ÷ 3 = 7832
7832 × 7.4 = 56664
7832 × 23.8 = 186402
56664 + 186402 = 243066
243066 ÷ 44324 = 5.4829
5.4829 × 3 = 16.4487

7574 Dup 7571

2% KOH 2 grms 2.0 ff, each cell

Flatten average 7.4

Green " 23.8

=1033 Hg wire 244 dumper COH 7.836

7575 — 238 " COH 7.734

7576 — 240 " COH 7.812

3 | 23.382

7577

21 Hole 665 - 1½ 3½ general flake
Oxide — 7 flake 24 708 Big Drum green

210 KOH Containing 1 gram Metallic Tantalum
dissolved in Nitric acid in each cell.
Edison cell furnish it.

Flake average 7.4
Green " 24 241 dumped lot 7.620
1033 lbs iron.

7578 233 " lot 7.652

7579 232. lot 7.715

Cancelled
could not make spec. wt.

	22987
	7662
	764
	306
	45972
	4534
	53634
	58507

7580.

21 Hole 005 - 1½ 3½ general flake 0.030 - 7 flake 24 708
Big Drum ground covered over with glucose - dried & screened thru 24 - To give porosity.
#1033 lbs. mix
21.0% ROH —
5 flake average 714 / 239 dmpl COF 7.454
screen " 241
7581 . 235 " COF 7.409
7582 . 233 . COF 7.426

3 | 22286
7429

7583 Dup 7580

2½% KOH 2 grms 1.08

Each cell

230 dump 10f 7422

7584 226 " 10f 7438

7585 — 234 " 10f 7385

7586 -

21 Hoff 005 - 1½ 3½
General reduced oxidized black
flake —

24 Black oxide nickel from action
of Hypochlorite, on reduplized
Chloride nickel —
21% NOH —

3 Cases average 7.4
Ni Chloride " 24.1 254 dumped Wt 8.670
#1033 filly wave.

7587 244 " Wt 7.939

7588 — . Wt

Had to change slides, and run
machine slow on account of
the nickel being so light and
bulky, as it would blow
out when the plunger came
down to tamp it.
Only had enough material
for one tube, and was shy a little
over an ⅛" on the second one.

7589 Dup 7588

Except use 708 grain coated with glucose — 18 gms glucose — 75 gms 708 grain — very sticky — well coated — dried on heater & ground in Mortar — screened —

21% KOH. To be soaked in water

Containing 2% of KOH, 24 hours

Fine average 7.4 220 dumps Wt 7.367

Coarse " 24.1

7590 214 " Wt 7.364

Edgrove

7591 215 " Wt 7.322

Water to be changed 3 times during that time — to soak out the glucose ——

7592 Dup 7589

Except 21% KOH 2 grms ~~KOH~~

Each cell –

209 dumper Cor 7.234

7593 211 " Cor 7.156

7594 213 " Cor 7.189

Dockout 1st

7595 Long Tubes

Loaded in big machine
21 flake 5/1000 Rogers Ground to 10/1000
Layer loading long tubes
general flake Hydrized black through
18 flake 24 green hydrogen

21% K.O.H.

#2 wt 11.157

#3 7596 wt 11.042

#4 7597 wt 11.390

3 | 33.58 9
11.196
70
7.837 20

put up with 4 Chgd iron #

Notice of wt flake

7598 Duplicate of 7595

Except

21% K.O.H. 2 grams Lio H each cell

wt 11.097

7599 wt 11.158

7600 wt 11012

3 | 33267

11,089

7623

Not sure of wt flake

7601

21 flake 005 1½ 3½

7 flake Good oxide —

Crosses 708 Big Drum soaked in Conc Corrosive Sublimate at 190 about — washed — boiled KOH, 24 hrs —

21% KOH

Flake average 7.4

Green " 23.9 267 sample lost 8.373

#1033 big iron

7602 263 " lost 8.382

7603 267 " lost 8.294

Green pretty heavy.

7604 Dup 7601

21% KOH z gpm 2.0 OH

Each cell —

262 dump LOP 8.266

7605 — 260 LOP 8.186

7606 — 266 LOP 8.324

7607

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 7 flake
general oxide —

24 Grens so also in saturated
Cold Solution Thorium
Sulphate — Co washed dried
Cooled Rott.

21% Rott

7 flake average 7.4
Green " 23.8 / .251 dumpi Lot 8,105
#1032 Chg irons

7608 245 Lot 8,056

7609 241 " Lot 8,045

7610 Dup 7607
21 c/o KOH. 2 grms LiOH
Each acc

247 dumpful Cof 8.002
7611 236 " Cof 7.984
7612 231 " Cof 7.954

7613 — Longtubes

Loaded in big Machine
21 Lobe 9/1000 Rogers ground to 10/1000
Layer loading long tube
General flake oxidized black run
through hydrogen 7 flake 24 green
big drum green #708

21% K.O.H.
put up with 4 irons

wt 10.564

7614 wt 10.792

7615 wt 10.686

$$3\overline{)32042}$$
$$10681$$
$$\#774$$
$$4274$$
$$4767$$
$$4767$$
$$4767$$
$$\overline{8.2094}$$

8.26

Long tube

7616

Duplicate of 7613

Except

21% K.O.H. 2 grams Li O.H. each cell

	wt	10.779
7617	wt	10.738
7618	wt	10.667

$$3\overline{)32184}$$
$$10728$$
$$774$$
$$4291$$
$$4096$$
$$7096$$
$$7096$$
$$8.3047$$

8.30

7619

21 Hab cos $1\frac{1}{2}$ $3\frac{1}{2}$ 7 ft qual oxdzd

Green soaked in Conc Sol Bismuth hydroxide in Chloride Ammonia only soaked 5 minutes. Then washed merely little water, then dried & ignited in KOH.

21% KOH.

Filter average 7.4
Green " 24.1/250 aliquot Wt 8.380

#1033 Dry iron

7620 245 " Wt 8.340

7621 239 " Wt 8.313

$$\begin{array}{r} 25033 \\ \hline 8344 \\ 765 \\ \hline 4172 \\ 50064 \\ 58408 \\ \hline 6381 \end{array}$$

7622 Dup 7619

2.1% NaOH 2 gms 2.1% NaOH.

233 dumper Wt 8.299

7623 230 " Wt 8.279

7624 236 " Wt 8.287

3 | 24865

82888

6.37

7625

Dup 7619

Except green was soaked
One hour in BiOH NH4Cl
Sol - not washed but dried
& then boiled KOH.

2 l/o KOH.

Flakes average 7.4
Green " 24.4 / 252 dumpers Lot 8.064
#1032 big irons
7626 250 " Lot 8.082
7627 24 " Lot 8.025

3 | 24171
8057
465
285
402
42
439
439
5639
5639
61635

6.16

7628 Dump 7625

21% KOH 2 gms Li OH,

240 pumps Wt 8.130

7629 230 " Wt 8.075

7630 " Wt 8.070

$3\overline{)24275}$
8092

6.17

7631 Layer loading

5/1000. 24 hole stock 237 plunger.

#108 Regular Wiffleles 3½ lb wt

7 flakes 24 green big drum lot #2

21.7 KOH.

7 flakes average 7.2

2 green " 23.9

#1033 big drum.

250 dumped wt 7.193

7632 248 " wt 7.406

7633 244 " wt 7.346

$9\overline{)21.8475}$

7282

764

2972

4372

5-0974

5,5634

5,56

7634 Duplicate of # 7631
Except # 2% KOH. 2 gm Li OH.

	248 sample wt	7.353
7635	242 " wt	7.288
7636	242 " wt	7.382

7637 Duplicate of #7631
Except 2.76 KOH, 2 gms Li OH
Run Cold

Crucible and 240 dumps wt 7.383

7638 243 " wt 7.385

7639 240 " wt 7.347

7640

5-1000 21 hole stock 3½ lb wt 237 plunger
#108 13 in flaker 7 flaker 24 screw.
#2 screw big drum lot.

2 oz KOH.
4 flaker average 7.4
#2 screw " 23.9
#1033 Clip wrap.

232 samples wt 7.414

7641 232 " wt 7.393

7642 233 " wt 7.357

7643 Duplicate of #7640
Except 2.96 KOH. 2 gms Li OH.

	238 empty wt	7.326
7644	235 " wt	7.340
7645	227 " wt	7.378

7646 Duplicate of #7640
Except 2.96 KOH. 2. gms LiOH. Run Cold.

	235 dumps wt	7.360
7647	234 " wt	7.402
7648	234 " wt	7.385

7649 Zitrole 5/1,000 Stock 3½ lb wt. 237 plunger.
#1 10 Regular in flakes.
#2 Green big drum lot.
7 flakes 24 green.

7 flake average 7.1
#1 Green " 23.9
#1.033 big irons

238 drum flake wt 7.391

7650 239 " wt. 7.450

7651 246 " wt 7505

7652 Duplicate of #7649
Except 2.16 KOH. 2. gms Li OH.

	244 dumps wt	7442
7653	240 " wt.	7400
7654	239 " wt.	7400

7655 Duplicate of # 7649
Except 2% KOH, 2 gm LiOH. Run Cold

235 dumper wt 7.322

7656 234 " wt 7.330

7657 236 " wt 7.414

7658

21 Hole 005 1½ 3½ - general flake oxidized
7 flake 24 708 Big Drum green
Soaked in Zirconium Solution by Dr Gl -
dried wash & boiled KOH. 24 mlg

21% KOH,
H2O average 7.0 255 dumped lot 8.118
Green as " 24.2
7659 258 " lot 8.150
7660 251 " lot 8.118
#1033 big grove.

243 86
8129
775
4064 5
56903
5690
6299

7661

Dup 7658

21% KOH, 2 gm 1.0M —

	250 dumped	Wt	8.121
7662	249 "	Wt	8.081
7663	251 "	Wt	8.096

7664.

Dup 7656

Used green soaked in Titanium Solution made by Dr. G. dried, then boiled KOH

21% KOH

Yellow average 7.0 / 24.8 / 244 amp. Cl 7.879

Green "

#1033 big iron

7665 240 . Cl 7.793

7666 237 . Cl 7.842

7667 / Dup 7664

21% KOH 2 grms 1.20 ⊕.

224 [illegible] 1.20 ⊕ 7.677

7668 222 . 1.20 ⊕ 7.662

7669 231 . 1.20 ⊕ 7.661

all the tubes hereafter will be made from Rogers machine ground stock, commencing with this group.

7670 Dup 7668

Except green leached out by Ammonia & Sulphate Ammonia — No KOH used —

21% KOH.

Drew average 24.1/

Flake " 7.0 / 272 dumped Of 8.215

#1034 Pig iron

7671 270 " Of 8.255

7672 259 " Of 8.128

7673 Dup 7670

21% NaH, 2 gms LiOH

	256 drops COA	8.126
7674	251 " COA	8.133
7675	255 " COA	8.067

7676

Dup 7668

Grown soaked in Nitrate Didymium dried, Boiled KOH.

21% KOH.

Drawn average 24.4

Flakes 7.0

229 dumpe Lot 7.413

#1634 Illy prone.

*7677 cracked end 225 " Lot 7.456

7678 225 " Lot 7.390

7679 Dup 7676

21 g/o Nott 2 grms [illegible]

227 [illegible] Wet 7.401

7680 228 " Wet 7.366

7681 225 " Wet 7.344

7682

Dup 7688

Green soaked in strong Nickel Sulphate, washed slightly & quickly dried – boiled NOH,

21% NOH

Yellow average 7.0

Green " 24.0

7683

7684

#1034 Hg intro.

241 dump Wet 7.566

242 " Wet 7.602

242 " Wet 7.593

7685 Dup 7682

21% KOH 2 grms 1.084.

236 dumped wet 7.539

7686 232 " wet 7.551

7687 235 " wet 7.577

7688

Dup 7688

Green soaked in Sulphate Silver
dissolved in Ammonia — dried —
Coated KOH —

#1034 Chlorprint
21 g/o. KOH.
Glazed average 7.0
Green " 24.1 / 226 dimpled lot 7.522

7689 212 " lot 7.430

7690 208 " lot 7.403

7691

Dup 7688

21% KOH – 2 grms Li OH —

212 drops LOF 7.362

7692 204 " LOF 7.359

7693 202 " LOF 7.315

7694

21 Hole .005 $1\frac{1}{2}$ = 7 oxyd General flake — Regular graphite nickel ~~oxide~~ mix — 24 ⅟ Dont let the lamp fall but let it down by hand as only the weight packs to tube See Edison

Filler average 7.3

21% KOH —

Graphite mix average 23.9/100 density Wt 5.343

7695 163 " Wt 5.107

7696 190 " Wt 5.307

Tubes took a smaller size rings $3\overline{)157.57}$ 52.52

The regular rings were 282/1000

The rings on these parts were 279/1000

2.82

5252
77
36764
36764
4.0447
28
2.828

7697 Dup 7694

Except 33% KOH —

170 dumpe Cof 5.394

7698 175 " Cof 5.342

7699 200 " Cof 5.225

$$
\begin{array}{r}
5320 \\
9\overline{)15961} \\
\hline
37240 \\
37240 \\
\hline
40964 \\
36720 \\
\hline
4244 \\
\hline
2,86748
\end{array}
$$

7700

Dup 7694-

Except 27% KOH, 2 grms

LiOH—

162 sample Wt 4.697

7701 177 " Wt 5.286

7702 166 " Wt 4.800

3) 14.783
4.928
77
34.496
34.496
37.745
37.745
2,656.135

151

[redacted]

7703

Dilute 2 cc 5 $1\frac{1}{2}$ $3\frac{1}{2}$ 7 flake

General oxidizer —

24 green treated Sol of Antimony in Aqua Regia — not dried of very acid — thick NOH, swelled when put Sb Sol in green & there was an action

21% NOH,

Flake average 7.0 — 200 sample Wet 7.367

Green " 23.5 — 240 " Wet 7.354

7704

7705 — 235 " Wet 7.335

#104 Dig wine

$$3\overline{)22055}$$
$$\underline{73352}$$
$$77$$
$$5464$$
$$5464$$
$$5661$$

5.66

7706 Dup 7703

21 g/L NaOH, 2 grams 1.000 —

232 dumper Wet 7.348

7707 230 " Wet 7.411

7708 244 " Wet 7.441

7709

21 Hole 1½ 3½ ~~Ep~~

7/8 flake made from action Hypochlorite K on $NiCl_2$ + subsequent reduction in Hydrogen — 24 grams Hydrogen

21% KOH.

#2 Brent average 24.1

Spec flake " 7.0

#1034 Hydrogen

217 olumpa let. 7492
794
2968
5244
5244
5244
5244
5979

1 Tubes

5.79 grams

7710

Packed with Reg graphite nickel mix
don't let weight fools — Edison will
explain —

21% KOH
Average dump 23.9

184 dump wt 4.296

7711 Dump 33% 192 " wt 4.373

184 " wt 4.326

3 | 12995
4.332
12996
324

7712
The rings on these tubes were 279/1000
" " " the rag " " 282/1000

3.00-

7713

21 Holes 05 1½ 3½ 7 flake general
screened — 708 Big Drum green
picked out pieces that are hard &
fine grain — crushed thru 20 mesh

21% KOH,
Flake average 7.3
Green " 24.2
#1034 Big iron

7714

7715

234 dumped Lot 7.596

235 " Lot 7.509

237 " Lot 7.497

3 | 226602
7534
768
6022
45204
52738
51860

7716

Dup 7713

Except 21% KOH, 2 grms Li OH.

Each cc —

229 dumper lot 7.499

7717 229 " lot 7.461

7718 233 " lot 7.327

7719-

21 Hole 005 1½ 3½

#88 flake ½ thickness 4 sides ~~black~~ Immature

Freduced by H —

4 flake 24 Reg No 2 708 Big O green

21% ROH — 253 dumpe lot 7.094

Flakes average 3.9
Green " 23.8

7720 251 " lot 7.091

7721 254 " lot 7.171

#1034 Big mine

6.11

$$\begin{array}{r} 3\overline{)21356} \\ 7119 \\ \underline{8559} \\ 64071 \\ 35595 \\ \underline{56952} \\ 6.11522 \end{array}$$

$$\begin{array}{r} 235 \\ 3.9 \\ \hline 274 \end{array} \qquad \begin{array}{r} 2388 \\ 2470 \\ 1647 \\ 1235 \\ \hline 2299 \end{array} \qquad 5.9$$

7722

Dup 7719

21% HOBl, 2 grms LiOH Each cell

261 dup for Wt 7,161

7723 257 " Wt 7,164

7724 — 257 " Wt 7,167

7725

Drop 7719 Except
#98 flake twice as Thick as Reg
Oxidized Slack reduced
by ~~#~~ — 14 mlg flake
24 green 708 Reg D

~~21% Kol~~

Flakes average 14.5
Screw 23.8
#1038 Reg iron.

7726 — 322 Kimpel Lot 8.646
227 " Lot 8.729

7727 — 222 " Lot 8.794

Flakes packs would only fill 3/4 full to feed propan. hopper

5.41

$$\begin{array}{r} 14.5 \\ 23.8 \\ \hline 38.3 \end{array}$$

$$\begin{array}{r} 2388 \\ 2298 \\ \hline 8290 \\ 5.41 \end{array}$$

$$\begin{array}{r} 26169 \\ 3\overline{)} \\ 8723 \\ 621 \\ \hline 2523 \\ 8716 \\ \hline 1746 \\ 5238 \\ \hline 6621 \\ 6621 \end{array}$$

7728

Dup 7725

21 a/o KOH 2 grms 100 Each cell

216 dup for Lot 8,738

7729 214 " Lot 8,675

7730 218 " Lot 8.620

7.731

21 Hole 005 $1\frac{1}{2}$ 2 lbs 2 oz ~~2 lbs~~ ~~wt~~ wt

12 No 2 green 708 Big Drum

through 30 mesh

4 flake General Oxidized

21 a/o ROH

Flake average 4.4.

Green " 12.3

#1034 Big mouth

7.732

448 dumps wt 7.726

444 " wt 7.763

7.733

442 " wt 7.692

$$\begin{array}{r} 3\overline{)23181} \\ 7727 \\ \hline 7.727 \\ 786 \\ \hline 46362 \\ 23181 \\ \hline 54089 \\ \hline 5.6870 \end{array}$$

5.164

73.6

7734 Dup 7731

21% ROH z grma Lidt Ecoliacell

449 dumpi: lot 7.657

7735 460 . lot 7.774

7736 453 .. lot 7.775 .

7737

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$

7 flake general ORZ 708 B.19 Drum
Reg — 24 green

21% KOH, 10 grams Silicate of Potash
in each cell, Konnerman has the
Silicate Potash —

Flakes average 7.4
Green - 24
#1634 Big Drum.

7738

241 dumped Wt 7.620

233 " Wt 7.652

232 " Wt 7.715

3 | 22987

7739

7740

Dup 7737

21% KOH 10 grams Silicate Potash

2 grams Li OH Each c.c.Cl

Filtrate average 7.3

Green " " 23.8

#1034 Dry iron 260 dump Wt 7.427

7741 251 " Wt 7.654

7742 243 " Wt 7.642

7743

21 flake 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237
7 general orange flake 24 green 708 Big Π

21% KOH, 5 grams Carbonate Potash on
2 grams 21% OH, each cell
5 flakes average 69
5 green " 24.1
1034 Big iron.

	241 dump	Cof	7.609
7744	235 "	Cof	7.666
7745	236 "	Cof	7.683

7746

Dup 7743

21% KOH. 5 grams Carbonate Potash
3 grams LiOH. Each cell.

	242 dumped	Lot	7.684
7747	246 "	Lot	7.657
7748	239 "	Lot	7.514

7749 —

Dup 7743

21% KOH, 8 grams Carbonate Potash
3 grams KOH Excess calk.

241 dup for LOF 7.609

7750 242 " LOF 7.585

7751 243 " LOF 7.613

7752

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237

7 flake oxidized gerb 24. Old hand
No 1 green. # 551

21% KOH.

Green average 24.1 / 219 dump lot 6.703
Flake " 7.2
7753 209 " lot 6,657
#1034 big irons
7754 211 " lot 6711

3) 20071
6690
13
4683
0
4683
13
4545
13

$\frac{24\frac{1}{2}}{31}$ ($\frac{2490}{31}$ = 5.15.

7755

Dup 7752

21% KOH 2 grms ~~of KOH~~ Each cell

	214 dumps	Wt	6.674
7756	199 "	Wt	6.565
7757	190 "	Wt	6.530

7758-

Dup 7755

Except RUN COLD

186 dumps Wt 6.534

7759 183 " Wt 6.494

7760 185 " Wt 6.542

7761

21 HCl 005 1½ 3½ 237.

#88. 4 flake ½ thickness oxidized so transparent
Reduced by H — same as used in 7719
RA 707 ½ wash filtered dried cold
heat.
21% ROH.
Green average 23.9
Flake " 4.2
#1034 Big irons.

262 dry wt Wt 7.432

7762 262 " Wt 7.456

" Wt 7.444

7763
Nickel Hydrate very heavy
Only enough flake for two tubes.

7444
83
45 | 37322
37522
6327

239
42
28 | 2390
2348
42
42
1470
1470

7764

Dup 7761

~~Exceptional 24 old No 1 green~~

Flake wgt 21/10th —

Flake average 4.2 | 193 dumped COR 6.138

Cream " 24.1

7765 193 " COR 6097

#1034 lly crum.

7766 " COR ~~7122~~ 6.235

6.17

Only enough flake for two tubes.

6.17
.851
6.17

30.85
4.8936
5.205

24.1
4.2
24.3 (2410
2264
1463
1463

(451

5.20
.04

7767

21 Half 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237

7 flake General Oxidized

Warm #707 green on Sample

Piece paper laid on

hot plate for one hour

24 green — Cool green off before cooling — 7ff 24 green

21% KOH

Flakes average 7.4 / 235 dumped left 7.335

Screens " 23.4

7768 — 233 " lost 7.323

1034 flakings

7769 231 " lost 7.355

56 revolutions per Min.

$$3\overline{)22013}$$
$$7338$$
$$76$$
$$4402$$
$$5366$$
$$5,576$$

5.57

7770

Dup 7767

2 1/2 Rott 2 grms 1.00th,

234 dumper Wt 7,421

7771 . 234 " Wt 7,337

7772 - 234 " Wt 7,350

7773

Drip 7767

But use 708 Big Brown Warmed

Warmed half hour, and let cool.

24" - ~~NOOO~~.

25 Lab average 7.4

Green " 24.2

225 dump Cel 7.461

1034 Dry inove.

7774

223 - Cel 7.466

7775

216 - Cel 7337

5 Revolutions Per Min.

$$3\overline{)22264}$$
$$7421$$
$$766$$
$$4526$$
$$4526$$
$$4947$$
$$5.6844$$

5.68

7776

Dup 7773

21%/.1OEt 2 gram 1.0 Et,

212 dunlop Leaf 7382

7777 216 " Leaf 7455

7778 219 " Leaf 7459

7779

Dup 7773

Wormed & Cooked 705
7 of 24 given –
Machine run so it only
gives one blow & no rebound

21% KOH,
Filter average 7.4
Green " 239/227 dumps Wet 7.482
1034 Dry iron
7780 223 " Wet 7.400

7781 238 " Wet 7.593

80 Revolutions per min.

$$\begin{array}{r} 3\overline{)22475} \\ 7492 \\ 76 \\ 49 \\ 52 \\ 4495 \\ 5244 \\ 7388 \end{array}$$

5.73

7782

21 Hole 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237

XXXRA our would before

filter – 7 flake gave oxidized –

24 green.

21% KOH.

5 flake average 7.4 235 dumps lost 8.220

5 green " 24.3

7783 234. lost 8.233

7784 246. lost 8.297

1034 dry iron. in Hydrate very heavy

56 Revolutions per hour

$$\begin{array}{r} 3\overline{)24750} \\ 8250 \\ 750 \\ 4750 \\ 4950 \\ 5775 \\ 6.3195 \end{array}$$

6.31

7785

Dup 7782

21% KOH 2 gms 2.0 cc —

234 Dumpe lot 8.247

7786 248.. lot 8.312

7787 249.. lot — 8.301

7788

Dup 7782

But green heated & then

Cooled — 7 flake 24 g

21% KOH.

7 flake average 7.0

Green " 23.8

#1034 lelig iron.

243 dumped Wet 8.030

7759 245 " Wet 8.022

7790 235 " Wet 8.063

$$3\overline{)24.115}$$
$$8038$$
$$772$$
$$6076$$
$$5.6266$$
$$5.7873$$

620

$$16076$$
$$5.5.6266$$
$$5.6266$$
$$620553$$

7791 -

Dup 7788

But 10 flake 24 green
gave ox —

21% KOH,

Flake average 10.4 ± 40 dimple Clot 8,533

Green " 23.8

7792 224 " Clot 8,557

7793 222 " Clot 8,396

$$9\overline{)25486}$$
$$\underline{84950}$$
$$5,9465$$

5,94

7794

Dup 7799

10 flake But green nat

heated —

21 w/ in Kott.

1 flake average 10.4

1 brew " 24.3

1 1034 lig iron.

230 dampen Cut 8.666

7795 — 222 " Cut 8.590

7796 240 " Cut 8.46

3 | 25872
78
81104

3 | 25872
8624
78
6.03 6936 88

7797

21Hob 005 1½ 3½ 237 —

7 general flake 0 gr dirty —

24 green boiled in water 20 minutes
washed + dried — no KOH used

21% KOH. – Let the green stay in open air
spread out for one hour before washing

3 flake average 7.3 262 dumpt. Wt 8.183
Green " 24.3
#1034 Pig iron.

7798 256 " Wt 8.407

7799 264 " Wt 8.367

The numbers with A are duplicates of above, on
account of the machine might of slipped on the flake
side not being jammed.

7797.A 257 dumpt. wt. 8.198

98.A 248 " wt. 8.068

99.A 240 " wt. 8.044

3 flake average 8.9
Green " 24.4
#1034 Pig iron

6.20 – 24310 / 3 = 8103 / 6 = 1350 / 6 = 225 / 6 = 37 / 6 = 6.2064

7800

Dup 7797

21% KOH 2 grms x/ OH each cell.

	249	dumped wt	8.347
7801	252	" wt	8.307
7802	254	" wt	8.420

7800 A	244	dumped wt	8.135
1 A	245	" wt	8.080
2 A	247	" wt	8.039

7803

Dup 7797

Green boiled in Chloride ammonia

No KOH used

21% KOH, Kept green in air 1 hour before use

5 lake average 7.0 | 277 " Dump lot 8.177

Green " 239

7804 | 259 " lot 8.139

#1037 Clg range

7805 | 253 " lot 8.103

$$3\overline{)24.419}$$

8.139

773

24.417

56973

56973

6.2914

6.29

7806

Dup 7803

21% KOH 2 gms 1.0 ~~cc~~

250 dumps COF 8.133

7807 247 " COF 8.107

7808 248 " COF 8200

7809

Dup 7797

Green soaked in nitric acid
Cold — no KOH — use
21% KOH — Keep green in air 1 hour before

Green average 23.8
Flake " 7.3
#1034 Chg. iron
7840

253 dumps Wt 7.398
243 " Wt 7.206
242 " Wt 7.227

7811

Only made the above three, then changed to other machine.

7809 A
10 A
11 A

254 dumps wt 7.704
246 " wt 7.647
234 " wt 7.723

Flake average 6.9
Green " 24.1
#1034 Chg. iron.

$$3\overline{)23.074}$$
$$7.691$$
$$7.65$$
$$38455$$
$$6146$$
$$46837$$
$$53837$$
$$5.188$$

5.188

7812

Dup 7809

21% KOH, 2 grms ~~LiOH~~ —

	219 dumpy	Wt	7.535
7813	220 "	Wt	7.535
7814	221 "	Wt	7.535

Filter average 6.9
Green " 24.1
#1034 Glycerine

7815

Dup 7797

green boiled in strong ammonia — no KOH used

Washed free NH4Cl

keep in mind I have before using green

21% KOH —

3 blks average 6.9 / 246 dup Wt 7.508

Green " 24.0

7816 233 " Wt 7.361

#103 blk iron

7817 221 " Wt 7.496

$$3\overline{)22365}$$
$$7455$$
$$778$$
$$5940$$
$$5185$$
$$5185$$
$$57997$$

5.79

7818

Dup 7815

21% KOH, 2 grams Li OH —

228 sample COf 7.470

7819 227 " COf 7.471

7820 221 " COf 7.395

7821 -

Dup 7777

Green Bg filed in HgCy strong sol.
Washed - no KOH used
Just green in water I have before me

21% KOH

J. Lake average 6.9
Green 24.3 / 243 dumper Col 7.662

#1034 Reagent.

7822 241 " Col 7.683

7823 234 " Col 7.632

3 | 22977
7659
778
6 | 272
5361 3
5361 3
5.958

5.95.

7824

Dup 7821

21% KOH 2 grams 1.000.

230 dumpling Wt 7.646

7825 225 " Wt 7.567

7826 220 " Wt 7.544

7827 Dup 7797

Green boiled in KCy no KOH used

Expose green to air 1 hour before use

21% KOH,

Filter average 69 / Buchanan. Lot 7.742

Green " 23.8 256 dumper

#10 yellow

7828 256 " Lot 7.748

7829 245 " Lot 7.702

$$\begin{array}{r} 7.702 \\ \hline 3\,\big)\,23.192 \\ 7731 \\ \hline 775 \\ 3865 \\ 7 \\ 5411 \\ 5411 \\ \hline 5991.52 \end{array}$$

5.99

7830

Dup 7827

21% NaOH 2 grams L.O.H.

239 dumpa Lot 7.735

7831 230 " Lot 7.647

7832 229 " Lot 7.637

7833

Dup 7797

Green warmed in Citrate of Potash — washed — no KOH used —

put in an 1 hour before using

21 c/c KOH

Filtrate, average 69

Green " 238

#1034 big iron

7884

7835

248 dumped Wt 7.634

249 " Wt 7.596

245 - Wt 7.636

$$3\overline{)22.866}$$

7622

1.773

5.90

36 11

5 3 3 5 4

5 - 3 3 5 4

5.9070

7836 — Дир 7833

Zlyokoff z gmin LOA.

240 dumpa LOA 7.643

7837 235 " LOA 7.553

7838 — 230 " LOA 7.636

7839

21H~~Co~~005 1½ 3½ 237

7 flake generic oxidized –

24. Anhydrous Nickel Oxide –

21% KOH, 6 grms LiOH.

7 flake average

Green "

#1034 Ally iron dump lot

7840 " lot

7841 " lot

7842

Dup 7797

green Boiled Bichloride Hg

strong — " no Kott.

put in air 1 hour before use

2.14% Kott

Flakes average 69

Greasy " 24.2 / 248 dump

#1034 Hg iron

7843 241 " Wet 7.707

7844 228 . Wet 7.633

7.668

$$3\overline{)23008}$$
$$7669$$
$$7669$$
$$61352$$
$$5368\,3$$
$$5368\,3$$
$$59664$$
$$3$$

5.96

7845

Dup 7842

21% KOH, 2 grams ~~LiOH~~

227 dumper LOP 7.594

7846 228 " LOP 7.631

7847 226 " LOP 7.661

7848

Dup 7.197

Except Green soaked in strong NH4 Carbonate Ammonia — not washed out, left in a dried —

21% KOH.
Iola average 6.8
Green σ " 24.3

7849
=1034 Dry iron.
7850

228 dumps Lot 7.190
218 " Lot 7.207
209 " Lot 7.218

$$3\overline{)21615}$$
7205
778
5764
5043.5
5043
5605.49

5.60

7851 Dup 7848

216/ ~~KOH~~ 2 grams ~~LiOH~~ —

Breakhead 216 dimples Wf 7.426

7852 214 " Wf 7.388

7853 216 " Wf 7.320

7854 Dup 7797

Except green soaked in strong solution NH_4NH_4Cl for 20 minutes then washed out and dried – Then soaked again in fresh solution " " dried

21% KOH.

Yellow average 6.9 / 233 dumps Wt 7.482

Green " 23.8 / 232 " Wt 7.436

7855 / 224 " Wt 7.361

=10 34 Blg more.

7856

$$\begin{array}{r} 3\overline{)22279} \\ 7426 \\ 775 \\ 37130 \\ 51982 \\ 5.1982 \\ 5.1982 \\ 5.75 \end{array}$$

5.75

7857 Dup 7854

21% KOH 2 grams L. OH —

dumpy Wt 7.266

7858 " Wt 7.290

7859 " Wt 7.287

7860

Sup 7797

Except Green soaked three times in NH_4 NH_4Cl solution, washed & dried between each 00 ab —

21% KOH,
Flake average 6.8
Green " 24.3
7861
#1034 elig from
7862

238 dumpit Wt 7.616
234 " Wt 7.545
236 - Wt 7.418

$$3\overline{)22579}$$
$$7527$$
$$7\cancel{7}8$$
$$6021\cancel{6}$$
$$5\,2689$$
$$5\,2689\,0\,0\,6$$
$$5.85600$$

5.85

7863 Dup 7860

2% KOH 2 grams LiOH.

209 plumpfer Wf 7.526

7864 221 " Wf 7.402

7865 230 " Wf 7.412

7866

21 Hole 005 1½ 3½ 237

grizzley green made by Cervant

21% Rott. yeil flake ox 7+24

3 hole average 6.9

Shear - 24.0

#1034 Chg iron

221 dimpled lot 6.745

7867 -

230 " lot 5.658

Shear pated sticky

$$\begin{array}{r} 2\overline{)12403} \\ 6201 \\ 776 \\ \hline 37209 \\ 4407 \\ \hline 43407 \\ 4.8119 \end{array}$$

4.81

7868

21 Hole .005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237
7 flake ½ thick oxidized – has Thermost
flake, those that oxidized yellow,–
24 green RA No 716. Cobnet freed
by hypo – ½ wrinkle not filtered
dried low heat,.

#1034 lb/inch
21 0/3 KOH,
Flake average 6.8
Green " 244
7869
7870

254 dumps	Cof	7,840
246 "	Cof	7,850
248 "	Cof	7,825

7838
782
15676
62704
54866
61292

6.12

7871

Dup 7868

21% NaOH 2 grms LiOH —

240 dilution LOF 7.832

7872 " 239 " LOF 7.739

7873. " 232 " LOF 7.720

7874

21 Hakoos 1½ 3½ 237 -

7 flake qual oxdzd 24 green which has been soaked in ferrate Potash in strong Pot ash - warmed till all ferrate decomposed then NOH washed out

21% NOH
Flake average 69
Green " 24.4
#1034 Illy inorg.

7875	232 dump	Lot	7,348
	241 "	Lot	7,443
7876	223 "	Lot	7,349

7877

Dup 7874

21 a/o KOH 2 grams LiOH,

225 chamber Wf 7408

7878 227. Wf 7.404

7879 215. Wf 7.365

7880 -

21 Hole 005 1½ 3½ 237

7 Square punched flake, Ordy or
rear Chine Hydraqen
24 green 708 B Drum
#1934 Ally jiang
21" Rot.
Flakes average 7.4/24 dumps lot 7907
7881 lot 7758
Green " 239 239 . lot
7882 239 . lot 7723
Flake acts heavier than regular
according to bulb. Heads O.K.
Remark has a flake crack

7883 $3\frac{1}{2}$ cut

Dup 7880

21/2 ~~NCH~~ 2 prus L.~~OH~~

234 dumbpa Cut 7.799

7884 234 " Cut 7.706

7885 234 " Cut 7.812

No 2 flake is 1/2 thick

square flake 40/1000 Oxidized

transparent to yellow

Reduced by Hydrogen

Reg tube mean

21 Hole 005 1 1/2 spiral —

No 2 flake 1/2 thick oxid

7586 — 3 1/2 wt

Reg tube but burn outside

No 2 flake 4008 □ green —

21% KOH — 4 flake 24 g

Flake average 41

green " 239 cracked end 249 dump flat 6926

" 1034 Hydrogen " 244 cracked end " wt 7,048

7887

7888 cracked end 247 · wt 6907

3 | 20881

6960

854

2784

3480

5568

5943

5.94

3½ wt

7889

Dupaf 7601 –

after tubes made soak in

ammonia & then accessible

Run 21% NOH. – 4 ft 24 g

Flakes average 4.1
Green " 24.1
#1034 Blg irons

261 dumped Wt 7.663

7890

263 " Wt 7.644

7891 268 Wt 7.648

Only enough green for three tubes.

$$\begin{array}{r} 229.53 \\ \hline 7.652 \\ 8.34 \\ \hline 30.608 \\ 3.826 \\ 6.216 \\ \hline 6.53.4 \end{array}$$

6.53

3½ wt

7892 Dup 7859

21½ Red, 2 green, 1 ~~[illegible]~~,

No more green left. Cot

7893 Wt

7894 Wt

7895 — 3½ wet

Reg tubes — No 2 flasks, 4 flasks —
708 BD .24
21% containing 2 grams ammonia

Flasks 4.1
Green 239 242 dumped wet 6.995
#1034 eliminated
7896 250 " wet 7.019
7897 252 " wet 6.994

2) 21008
4002

7898 3½ wet

Dup 7895

21%. 2 grms ammonia 2 grms litha

½ lake average 4.1
Green " 23.9 246 dumps Wet 6.979
1034 Dig iron.
7899 246 " Wet 6.957
7900 243 " Wet 6.979

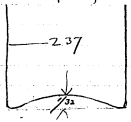
3½ wet

7901

Reg. tubes, No 2 flake 4 flake
24 | 708BB —

End of tamping tool 1 thus

Drawn average 23.9
Flake " 4.1
±1.34 slip insue



7034 average

21% RSH —

258 dump Wet 7.026

252 " Wet 6.949

7902 —

253 " Wet 7.127

7903

21.02

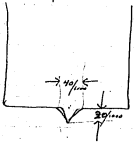
First tube the cup in the plunger was partially filled six times. #2 tube partially filled 4 times, #3 tube partially filled 2 times.
Plunger when it tamped did not sound as hard & blow as regular, and blew more of fines out through top of tube as plunger went in.

7904 $3\frac{1}{2}$ wt

Dup 7901

But tamp Thus

Drew range 23.9
Flake " 4.1
#1134 Alig iron.



25# dumpoo Wet 7.019

7905 25 " Wet 6.979

7906 25 " Wet 6.987

Plunger acted same as regular 6.995
Ir grew on flakestuck on set.

5.96

7907 Dup 7901 3½ wet

With Regular Tamp
But mould where split
is to have a piece sheet
brass put in to separate the
2 halfs of the mould
10/1000 apart — flat plunger

Flakes average 4.1
Green " 23.9
#1034 Clay iron 252 dumped Wet 7.107

7908 255 " Wet 7.110

7909 254 " Wet 7.134

Rings very hard to put on 3)21.351

Fibers measured when finished 29 9/100

7.117
853
21.351
35585
56936
6.07080
6.07

7910 -

~~Dup~~ 3 ½ wt

Rod tubes - No 2 flake
4 flake 24 to 708 BD —
fingers put out to scatter
the green after it dumps

F. Lab average 411
Green average 239 246 dumped Wt 7159
± 1034 Chg in one

7911 246 " Wt 7163

7912 24 " Wt 7131

One finger under the green slide to shatter contents.

3 ½ wet

7913

Dup 7910

With fingers to scatter both the green & the flake after dumping —

Flakes average 4.4
Green " 239 237 dumped Cot 7.231
: 1034 Chg iron.

7914 : 240 " Cot 7.167

7915 240 " Cot 7.100

One finger attached under the flake side & to pretter each dump as it falls.

7916-18 - 1st two
chg Rec in 5% KOH
then run 1st run
in 5% KOH
Then changed to 21% KOH

7916 — 3½ wt

Reg tubes No 2 flake.
4 fc 24 xo 708B green

Run in 5% KOH. Reverse for
One hour HOT. Then Solution
Changed To 21% & Run Reg
on board

Flake average 41
Green " 239

	239 dumped	wt	6.937
7917	233 "	wt	7.036
7918	241 "	wt	6.960

= 1034 Chg iron.

Flake average 4.4
Green " 231

7916A	238 dumped	wt	7.492
7917A	239 "	wt	7.430
7918A	238 "	wt	7.559

The above #7916-18 was run wrong,
made duplicates

No 2 of 1/2 Kneck Oxd

3 1/2 wt

7919 Jubes burs inside not ground off

Reg Tubes No 2 flake - 4 ff

24 green - 70 BD -

21 Roll,

Flake average 44

Green " 23.9 2nd practice dumper end Wet 6.997

1.034 Dry wave

7920 2nd Wet 6.937

7921 2nd practice end Wet 7.090

21.024
7008
845
35.040
32
2.864
56.217
519

7922 $3\frac{1}{2}$ coat

Regulators plated twice as thick with nickel - -

4 pt No 2 - 708 Bigd 24

21% KOH.

3" lake average 4.4

Green 239 233 dumper lot 7.281

#1034 Cly irons

7923 237 · lot 7.292

7924 240 · lot 7.277

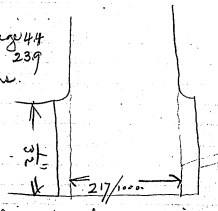
$$\begin{array}{r} 3\overline{)21.850} \\ 7.283 \\ 845 \\ 5641 \\ 3132 \\ 2964 \\ 5826 \\ 6.1541 \end{array}$$

7925 3½ cut

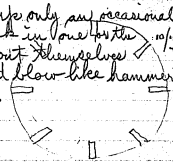
Reg tubes – no 2 flake

4 fl 24 708BD

Flake average 44
Green " 239
#1034 Alg iron.



Does not plug up only any occasional kernal of green will stick in one of the holes, then they fall out themselves. It is a hard, solid blow like hammering on steel that rings.



21½ ROSH.

	245 dump (c) +		7.173
7926	246 " (c) +		7.182
7927	244 " (c) +		7.117

7928 $3\frac{1}{2}$ cot

Reg tubes = fried off to screen out of several flake Enough flake through 40 mesh to mix with green 90 parts green 10 part flake – Roll out glass plate cold cover with spray of 21% ROH till gooey together break up gently after drying to screen thru 20 –

24 or 26 of this. 4 oz flake use dry right from hot plate

21% ROH

3 flake average 44

Green " 24.8 243 drop per cot 7.817

= 1024 flig irons

7929 236 " cot 7.817

7930 221 " cot 7.828

9 | 23462
| 7821
| 8 | 2 | 2

6.647
90

5.98

5.9828

7931 $3\frac{1}{2}$ wt

Reg tubes 4 No 2 flake

after the tubes are filled

stop feeding green + flake

+ let the weight drop

25 times

21% KOH.

Flake Sample 44

Green " 239 236 dumped 10 wt 7.220

#1034 Big run.

7932 241 " 10 wt 7.276

7933 235 " 10 wt 7.204

Compresses the mix in the tube about 4/1000

pu 5/1000

7934 3½ wt

Reg tubes painted inside with mush of anhydrous oxide of nickel in KOH water & brot up in Hydrogen Low Ott

Nicking now —

4 NO2 flake Zy 708BT green

21% KOH

Green average 241
4 lake " 444
JF 1834 Reg iron.

7935	249 sample	Ott	7.349
	246 "	Ott	7.404
7936	239 "	Ott	7.453

3)22206
7402
843
7559
5924

6.25

7937

Reg tubes — 4 no 2 flake
24 | 708 green —

First mch of tube use
the 2 lb weight next
mch use the $2\frac{1}{2}$ lb wt
last mch use the
$3\frac{1}{2}$ lb wt —

21% ROCK.

Ff lake average 4.x
Fineery " 24.1
= 134 chg mons.

232 dump

	Wt	7.104
7938	Wt	7.079
7939	Wt	7.148

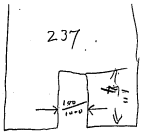
$$3\overline{)21331}$$
$$7110$$
$$\cancel{8420}$$
$$\cancel{5710}$$
$$\cancel{2840}$$
$$\cancel{5680}$$
$$6007$$

6:00

*7940.

Reg Tubes — 4 NO2 flare $3\frac{1}{2}$ cut

237.



21% ROH.

If I take average 44
Green " 24.1
#1034 big iron.

Plunger does not plug and fill up.

239 dumped Wet 7.608

*7941 232 " Wet 7.567

*7942 236 " Wet 7.480

7943 - Proper Loading

Reg Tubes, Nickel Graphite mix. - 24 - No 2 flake 4 - Let the weight drop one inch from the mix each time —

15 Lebo average 44
Screen " 245 / 205 drops Wt 6.047
#1034 Big irons.

7944 — Drop Drop weight 2 inch each time. -
218 " Wt 6.534

7945 - Drop Let weight drop full length —
246 " Wt 7.005

7946

Reg tubes, No 2 flake 4 ft 24 70% Bd green
$8\frac{1}{2}$ wet —
" Run in 5% KOH. 2 grms di OH.
Each cell —
after 2 Runs on board — change
KOH to 21% KOH, 2 grms di OH.
Yellow average 4.4
Green " 241 / 238 dim lot 7.639
#1034 Chg. rows.
7947 257 " lot 7.587
"7948 258 " lot 7.397

7949 –

Make 3 tubes Reg tubes 4. No 2 flake
24 70% green glue to 2 liters
to boiling Water Continue
1 gram dissolved To 100 cc water
Then precipitate out the Methia-
dry assembled —
21%/KOH
Flake average 14.4
Green " 24.1/252 dim/pa Wet 7,339
#1 1 24 Blg irons
7950 25# Wet 7,316

7951 25# - Wet 7,361
Flakes packed down around the stirrers
and broken off the pins.
Flakes seems softer than previous lots

7952. $8\frac{1}{2}$ lb

Reg Tubes, No 2 flake 4 – f

24 gm 708 BN 24 hours in strong
in H2O
$HgCl_2$ – well washed free from $HgCl_2$

2% KOH.

Green average 23.8
Flake " 4.4
#1054 Dry iron

7953

7954

253 dry flake lot 7.783

232 . lot 7.897

231 . lot 7.802

$$3\overline{)23482}$$
$$7827$$
$$844$$
$$31308$$
$$31308$$
$$26166$$
$$6.6059$$

6.60

7955 $3\frac{1}{2}$

Dup 7952

21% K 2 grms 1.00

236 [illegible] Wt 7.619

7956 239 " Wt 7.545

7957 220 " Wt 7.538

$$3\overline{)22702}$$

7567

847

6.38

3026

8

3026

8

60536

6.3864

7958 3½

Dup of 7952

Except green soaked 24 hours
Alcoholic + stronger solution
$HgCl_2$ - $HgCl_2$ soaked out,

21% KOH,
Fluid average 4.4
Green " 2.46 / 253 dump lot 7.872
#1 034 lily roots.
7959 249 " lot 7.661
7960 246 " lot 7.666

3)23199
7733
848
6184
6.55
3093
6186
6.557

7961 Dup 7958 $3\frac{1}{2}$

2% KOH 2 gm ~~LOH~~

246 dumpa LOH 7.626

7962 243 " LOH 7.722

7963 236 " LOH 7.717

3) 23.065

7688

848

61504

30752

61504 24

61.594

6.51

7964 = 3½

Reg tubes. no flake only use ~~[illegible]~~ Chloride of potassium through 40 mesh — 24 mil — after tubes full put in water Contain 3 or 4% KOH, + dissolve out the KCl, + rinse in water + dry — Then will shape the tubes —

Flake average 44 / Then

Green 238

4 flake KO2 — 24 708 green/BD-
B 2 cot.
21%

#1034 big irregular bracked end 225 dimpse Cot 7.383

7965 209 = Cot 7.242

7966 bracked end 233 - Cot, 7.324

Tubes after being filled were a little longer than when I started.

9 | 27949
7316
2944
2764
2769
2769
6.17 3

6.17

7967 $3\frac{1}{2}$

Reg tubes 4 f.l. x o 2

24 708 B.D —

Feed flake then green then Tamp

then flake then green then Tamp —

+20 on by hand —

#1034 Cliquinoz.

Nitro Rott.

Flake average 44 / 228 dumped lot 7.417

Green " 238 /

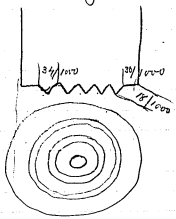
7968 222 " lot 7.444

7969 221 " lot 7.443

7970 $3\frac{1}{2}$

Reg Tubes, No 2 fl 4 70BD

24



Flaber average 11.4
Green " 23.8
#1034 Clay injm
21% Not.

251 dumped Ref 7.242

7971 244 " Ref 7372

7972 232 " Ref 7.524

Green plunge was in the rings, released it out ~~of~~ four times during each tube

7973. 3½

Rag tubes 4 fl x 02 700 Bd green

Plunger just the opposite

of 7901

Flakes average 4.4

Green " 23.8

=1034 Chg inova.

21% KOH,

234 dumper Wet 7.561

232 " Wet 7.607

7974

7975 — 236 " Wet 7.539

7976 - 8½

Reg tubes ≡80 flake 1/3 Reg thickness
Oxidized & Reduced by Hydrogen

3 flake 24 good grain
Layer loading

21% RCH.
3 flake tonnage 31
Brew " 23.8
≡ 1034 lbs iron

7977 24# dump lot 7.032

24# " lot 7.092

7978 24 " lot 7.048

Slide had to be opened a little larger than it was for the ½ thickness flakes
Stirrer stopped eight times during the loading of the three tubes

7979 - 3 ½ -

~~Drop~~ 7976

flake 1/5th Reg thickness -

2 flake #77 24 708Bd grass

21% KOH -

3 flakes average 2.0

Green " 23.8

#1034 Dry mow. 248 dump Wet 6.830

7980 248 " Wet 6.868

7981 248 " Wet 6.868

does not feed the regular amount of the dump every time

flake from 7982 to
to 8023 had too soft
Dried in Heather
+ Pressure gram
8023 after is
good after fresh
fm. wt.

7982. Bad flake

Reg Tubes 005 $1\frac{1}{2}$ $3\frac{1}{2}$ 237

24 708 gram which soaked strong
Solution $BiOH$ in NH_4Cl Dr. Stoffe
Soaked 2 minutes then washed
with hots water quickly to
decompose the solution into
$BiOxCl$ which in the pores
Dried then Coated 5% KOH,
& washed free of KOH, 4 NO_2 fm

210% KOH	252	dumpe Wt	7.022
7983	249	" Wt	7.051
7984	239	" Wt	7.020

Brew average 239
Flake " 3.9
#1034 lbs. sama

$3\overline{)210.93}$
70.31
$\frac{85}{42.18}$
$\frac{85}{6.045}$

The $1/2$ thickness #2 flake that I am [illegible] seems to be stuck together.

6.00

7985

Dup 7982

21%, ROH 2 grms 1.0H Each cell

	231 dumpa	Wt	6.918
7986	230 "	Wt	6.908
7987	224 "	Wt.	6.947

3) 20.773
6.928
47 56
5.342 4
5.957

7988

Dup 7982

Except green soaked in same Solution but quickly washed once in water so and only to wash outside of green + not decompose soil humic to Oxych Bi + Dried boiled Root) + washed free Root,

91% ROH

Flakes average 39

Green " 33.6

260 dumpling lot 7.036

1034 lily irons

7989 251 . lot 7.050

7990 239 . lot 7.024

9 | 21.1.10

7037

858

56296

35183

56296

6.0376

6.03

7991

Dup 7988

21 w/o KOH 2 grams 2.0 ~~ml~~ Ethylene

	230 dumped	lost	7.068
7992	233	lost	7.052
7993	227	lost	7.002

7994

Reg tubes 1½ 3½ 237

4 No 2 flake 24 of
708 grm soaked 48 hours in
strong Sulphide of ammonia
washed until nearly free of
NH4 — dried — not treated KOH.
to go to all and to work the
Sulphur out by chg & reversing
same as he did the old
Sulphide in new pockets
changing the 21% KOH
freque Jelly

21% KOH.

15 flake average 39	229 dumpe	Wf	6635
Green " 2440			
7995	225 "	Wf	6630
≡ 1034 Chg home			
7996	217 "	Wf	6592

7997

Dup 7994

21% KOH 2 gram d.08, after the sulphur has been worked out in glass 21%

	226 dumpee	Wt	6.616
7998	210	Wt	6.551
7999	207	Wt	6.536

7619

8000 —

Reg tubes - 1½ 3½ 237

708 green dipped in B.KOH in NH4OH same as used in 7619 but ½ the strength of 7619 - soaked 2 minutes washed one wash quick & dried then boiled in KOH 5% about 4 dried free KOH. 4 No 2 flake 24 green

21 of KOH.

Flake average 3.9
Green " 23.7 215 dumps Lot 7.168
#1034 Big iron.
8001 270 " Lot 7.115

8002 256 " Lot 7.088

Back flakes soft

8003

Dup 8000

21% KOH 2 gram 2.00

251 limpid Wt 7.088

8004 249 " Wt 7.031

8005 252 " Wt. 7.074

8006 —

Dup 8000

Except green dipped in
1/4 strength of the Bi Solution

2.1% NCH.

Tri Lab 3.9
Green 24.1 " dumped Wt 7.465
#1034 Big iron

8007 249 " Wt 7.293

8008 251 " Wt 7.263

8009 Dup 8006

21% KOH 2 grms 2. OH

242 dumpal lot 7212

8010 244 " lot 7238

8011 246 " lot 7175

8012

Dup 8000

Except green dipped in 1/48

Strength of Bi solution –

21% KOH

Flake 39 / Brushed and 200 dump 1 LOT 7.211

Green 24.1

#.034 lig. green

8013 200 " LOT 7.129

8014 200 " LOT 7.088

8015

Dup 8012

210/0 KOH 2 gms 2.0 gl.

240 dumpe LOT 7.133

8016 238 " lot 7.122

8017 233 " lot 7.086

1/4 & 1/8 may have got mixed in dishes

8018

Bud of Cake 1 oz KOH in 100 cc H2O

Dup 8000

Except 1/16th strength. 708 soaked + brot nearly to boil in Dowtherm, 3 minutes about, Then 1 quick wash in H2O dried, Then boiled KOH.

2 1/2 KOH.

Cake/39

Dreary 23.8

#1834 Cinnamon

8019	251 dump	Wt	6.816
	237 "	Wt	6.936
8020	241 "	Wt	6.797

8021

Dup 8018

21% KOH 2 gms 2.004.

	239 dumpl	6.820
8022	245 "	6.895
8023.	242 "	6.872

8024-

Dup of 7982

Except use 4 No 2 square

flake

21% ROA,

219 Flakes average 4.2

Green " 238

218 Flig irons

8025

8026

252 dump Cof 7.155

249 " Cof 7.070

247 " Cof 7.023

$$3\overline{)21248}$$
$$7083$$
$$85$$
$$35415$$
$$5866\ 4$$
$$6.02\ 8$$

6.02

8027

Dup 7982

Except 4 NO 2 Square flake

21% ROH 2 grms α, 1.000 —

243 dump Lot 6.976

8028 238 · Lot 7.000

8029 239 · Lot 7.019

8030

Dup 7988

Except 4 No 2 Square flake

21% Neth.

#19 Flake 4.2

Green 24.5

#1030 Clay iron

8031	244 "	Lot	7.039
8032	242 "	Lot	7.076

$3\overline{)21.079}$
7026

80.33

Dup 7988

Except 4 no 2 squareflake

21% KOH 2 grms LiOH

229 dumpa Lot 7.046

8034 235 " Lot 7.099

8035 233 Lot 7.062

8036

Dup 8000

Except 4 No 2 Squareflake

21% NCC

#119 Field 4.5

Green 24.4

#1034 flig virus 237 dwarfed Cot 7.268

8037 246 " Cot 7.247

8038 242 " Cot 7.164

8039 -

Drip 8000

Except 4 NO2 squareflake

2 NaOH 2 grams 1.08H,

233 dump Lot 7.138

8040 234 Lot 7.095

8041 235 Lot 7.114

8042

Dup 8006

Except 4 No 2 squareflake

21% KOH

Filled 4.5

Green 24.5 25% dumpe Lot 7.455.

at 103° Clg inner

8043 25.4 - Lot 7.592

8044 " - Lot 7.327

8045

Dup 8006

Except 4.1102 square flake

21% KOH 2 gms LiOH,

241 drinks lot 7285

8046 252 lot 7275

8047 242 lot 7250

8048

Dup 8012

Except 4 #02 squareflake

21% KOH.

Flake 14.5

Green 24.0 256 dup of Lot 7.235

#1034 big wave

8049 250 - Lot 7.185

8050 Shadowland 247 - Lot 7.195

8051

Dup 8012

Except 4 No 2 squareflake

21% KOH, 2 grms 2,1 OH.

248 dumpe. Wt 7.175

8052 251 " Wt 7.180

8053 249 " Wt 7.183

8054

Dep 8018

Except 4 x 0 2 squareflake

~~Slop LOST~~

#119 Flake 4.5

Green 24.3 LOT dump 7.080

#1334 Big iron.

8055 Brackedbend 25' LOT 7.018

8056 243 LOT 6.995

8057
Dup 8018
Except 4 No 2 square cake
2 @ 1000. 2 gms 2.000 —

" dump LOT 7.044
8058 Baked bread " LOT 6950
8059 Baked bread " LOT 6964

8060

Reg tubes. 3½ 237

7/ ~~[illegible]~~ Reg thickening (oxidg) — 708 green

21% KOH. 2 grms d. KOH. 1 gram Silicate of Potash

Slaker 7.1

Green 23.8 Cracked end dumb Wt 7.669

11:1034 Chg now. 2.13

8061 2.13 " Wt 7.488

8062 Cracked end 2.16 Wt 7.688

8063

Dup 8060

21% KOH 2 grms LiOH. 2 grms Silicate Patrick
Each cell —
Flake 7.4
Green 23.9
#1034 Bigwave Cracked end 225 dumper Wt 7.440
8064 Cracked end 230 " Wt 7.455
8065 230 " Wt 7.316

8066

Dup 8060

21% KOH, 2 grms LiOH, 3 grms Silicate Potash each cell

Flake 7.4
Breent 23.8
#1034 lig iron 230 dup pt LOT 7.270

8067 231 " LOT 7.319

8068 234 " LOT 7.315

8069.

Dup 8060

21% KOH. 2 grms of KOH – 4 grams Silicate Potash cocktail

Flakes 7.4
Green 23.8
+1034 Glycerous

	220	dumpie	KOH	7.275
8070	227	"	KOH	7.215
8071	227	"	KOH	7.165

8072

Dup 8060

21% KOH - 2 grms LiOH, 5 grams Silicate Potash excess

Flake 74
Green 23.8
= .234 Clip iron.

8073	232 dumps	Cat	7.001
	232 "	Cat	7.113
8074	232 .	Cat	7.135

8075

Reg tubes — 3½ 237 —

4 No 2 flake square flake — 24 · 708 g
soaked in Conc 18.0 M NH_4Cl sol 5 minutes,
drained off + dried without wash — then boiled
KOH 5% about — washed free KOH,
~~+ dried~~ —
21% KOH,

#19 Flake average 37
Green " 24.0 asy dumpes Wt 7.349
#1034 Ply iron

8076 asy " Wt 7.289

8077 asy " Wt 7.312

3 | 21950
7317
866
43902
4396
58536
6.3365

6.33

8078

Dup 8075

21% KOH, 2 grms 1.0 ~~0~~

	245 dumped	Wt	7.285
8079	235 "	Wt	7.110
8080	237 "	Wt	7.132

3 | 21.527
7.176
.868
43056
43056
43056
57408
6.21.43

6.21

8081

Dup of 8075 –

Butroaked in Di H2O 10 minutes.

21% KOH,

#117 lake 4.3

Screw 23.9

#1034 Blig wave

	-270 dumpe	LOA	7.890
8082	-271 "	LOA	7.893
8083	-273 "	LOA	7.835

6.66

8084

D-cep 8081

21% KOH, 2 grams 2.0 gm

268 dumbel Wt 7.855

8085 cracked end 270 " Wt 7.810

8086 270 " Wt 7.747

8087

Dup 8075
Except soaked 20 minutes in Bi Sal

21% KOH —
#19 F. flakes 4.3
Green 24.0
#1034 lig iron 264 dump 10f 7.265

8088 " 255 " 10f 7.202

8089 261 " 10f 7.312

.8090

Dup 8087

21% KOH 2 gmms 2.0 EtOH

	266, dumper	Lot	7.272
8091	264 "	Lot	7.355
8092	263 "	Lot	7.333

8093

Dup 8075 –

Except soaked 10 minutes in Bi sol Conc
no wash – dried then soaked again –
2 minutes in solution no cold wash
dried – then boiled KOH,
4 washes of free KOH, 3rd wash was
15 hours – Saturday night soak —
21% KOH.

19 Flaked 4.3
Green 23.9
7.1034 Slig yrow.

8094	255	Clumpy Cof	7.406
	209	" Cof	7.415
8095 —	264	" Cof	7.490

8096 Dup 8093

2 drops KOH 2 gms KOH —

	266 drops	Wt	7.523
8097	264 -	Wt	7.473
8098.	260 -	Wt	7.501

8099

Reg Tubes - 3½ 237

4 #02 Square flake 24

of the green wood in 8030 but which lies further treatment in KOH Containing Formaldehyde reducing Bi to metal —

21% KOH 24 dumpl of 7219

#119 Flaked 4.3

Green 24.0

#1034 Big iron

The green was heavy.

8100

Dup 8099

21% KOH, 2 grms KOH,

breakdown [illegible] — 7120

8101 ——

Reg Tubes 4 x 0 2 5 gr flakes 3½ 237

Edison No 4 Bismuth Experts, recorded in Berryes book —

708 grain soaked in Bi Glycerol solution

10 minutes — No wash — dried — Reduced to metal

by Formaldehyde KOH, after washing 3 or 4 times

soaked it all night in water on hot plate — in

morning soaked 2 times then dried — about quite

dead black by grey black — apparently no metal. opal.

no —

21 % KOH.

119 Flakes 4.0 244 dumped lot 69.18

Grew 240

8102 244 . lot 69.18

8103 252 . lot 7.013

8104 Dup 8101

2% KOH 2 grams LiOH. Fecal coli

see dumper Cat 7.119

8105 " " Cat 7.034

8106 " " Cat 6.970

8107

Edum 1905

Dup of 8101 but one quick w mah
has same grey black as 8101 —
particles opal rounding in opals probably ng —
21% KOH.
119 Flake 4.0
Green 23.9
#103 Big green 284 dump lot 6.932

8108 222 . lot 7.080

8109 241 . lot 7.120

8110

Dup 8107

21.7. ROH, 2 grams LiOH small cell.

[illegible] dumps LOF 7.185

8111 [illegible] LOF 7.169

8112 [illegible] LOF 7.193

8113

Edison No 1

Rectifier 3½ 237. ff No 2. 4 mils
24 ~~—~~ B.of Mthyl of Conc solution, soaked
10 min – no wash – dried, dries hard lumps –
Reduced by Formaldehyde in KOH – ~~dro~~
washed well – dried all night ordinary Temp
, black except 3% particles that are red and
green – particles only reduced in a little way.

21% KOH.

119 (3) lake 4.0
Green 239 262 pumps Cot 7.857
#1034 Mfg work
8114 262 " Cot 7.872

8115 262 " Cot 7.848

8116

Dup 8113

21% KOH. 2 gms LiOH Each cell.

	255 dumpe	LOF	7.788
8117	254 "	LOF	7.785
8118	255 "	LOF	7.852

8119

Edison No 2.

Dup. of No 1 except I quick wash dried, reduced by formaldehyde in full strength 21% KOH in excess — was black clear thru — dried all night and Temp found it nearly all odg to grow again. Except in very center of some large particles, 4 No 2 fl 24 — 3½ 227

Some of large particles had black center

21% KOH

119 Flake 4.0 — 225 dump for 10% — 9.102

Bream 24.2

8120 — 226 " 10% — 9.053

= 10% Glycerine

8121 Broken end 229 " 10% — 8.954

8122

Dup 8119

21% KOH — 2 grms LiOH. Each cell

	271 dumped	lot	8842
8123	272 "	lot	8927
8124	272 "	lot	8955

8125

Edison No 3 -

Dup. 8119 Except washed 3 times quickly dried. reduced formaldehyde in very dilute KOH. (10) weak - wash acid 3 times in reducing — washed free KOH, dried all night and temp - in morning all black a good — Micro some largest particles green center.

119 Fiber 4.0
Dil. KOH, 25 drops COF 7.610
Green 24.0
8126 250 . COF 7.669

8127 225 . COF 7.503
Pretty much finer in green.

8128

Dup 8125

21% KOH 2 grms 1.0 Gb. Each coff.

	237 dumpLot	7.635
8129	229 " Lot	7.517
8130	222 " Lot	7.482

2 tubes

8131

Edison #08 B. N. O.H. Exp. #

Reg tubes 3½ 237

4 #02 of 24 —

Reg #08 soaked in conc. H_2SO_4 HNO_3 HCl 15 minutes all poured off that possible, washed twice quick in small Evap dish then. Thrown in largest handle Evap dish full water — changed water twice then final wash hot water — dried all night natural Temp. didn't Coke, color same as before treated, square flake #02

21% ROH.

11.5 lbs 4.0

Green 24.2

8132 267 " Wt 7.720

#1034 Chgrime.

271 sample Wt 7.832

2 tubes

8133

Dup 8131

21% RDB. 2 grams L.DH.

25% dumpe Wt 7.730

8134 25% Wt 7.820

8135

Dup 8133

Except # 2 Flake cut by scissors.
But reversed tube made Cathode
against the Can for 4 hours —
then changed from Irregular
21.0 KOH, 2 gms LiOH —

Flake 4.1
Greyish 24.2
Big rows. 250 dumpfer Wt 7.680

8136 — 250 - Wt 7.710

8137

Edison No 6 — B. Mott Experiments

Reg tubes 3½. 277

4 No 2 of Coke ~~[illegible]~~ 24 — [illegible]

21 % No 4,

Flake 41

Green 23.7

Clay [illegible]

8138 240 dump Cot 7.253

241 · Cot 7.255

8139 243 · Cot 7.325

8140

Dup 8137

2% KOH, 2 gms Li OH each cell

242 plus/ph COP 7.329

8141 237 " COP 7.231

8142 233 " COP 7.209

~~8143~~

Continued

Book 13

23.5 / 7.0 } 77

24.3 / 7.4 } 76.6

23.8 / 7.0 } 77.2

23.9 / 7.0 } 77.3

23.8 / 7.3 } 76.5

24.3 / 6.9 } 77.8

23.4 / 7.4 } 76

23.8 / 6.9 } 77.5

24.0 / 6.9 } 77.6

Notebooks by Edison and Other Experimenters
Group 5: Battery Record Books, Nos. 1-30
Group 6: Long Tube Books, Nos. 1-7
Group 7: Long Tube Record Books, Nos. 1-6
Group 8: Battery Works Tube Books, Nos. 1-4

The dated entries in these forty-seven notebooks cover the period February 1907-July 1914. The entries are by Edison, Walter E. Holland, and other experimenters. The thirty Battery Record Books contain logs of cell endurance tests that detail the performance of cells using various preparations of metal flake (primarily nickel, but also some cobalt). Many of the tests involve standard nickel and iron compounds prepared by Ralph Arbogast, Jonas W. Aylsworth, Charles Dally, Ignacy Goldstein, Thomas D. Greenley, Otto Groethe, O. A. Rogers, and others. These compounds are indicated by a number, often preceded by the name of the experimenter or by a designation such as "R A," "J W A," or "Dr G" [Groethe]. Entries pertaining to the preparation of the tubes used in the cells can be found in three sets of Long Tube Books. All three sets relate to the same cells, and the numbers assigned to the tubes correspond to those assigned to the cells in the endurance tests. Labels on the front covers of some of the books contain notations by Edison regarding the importance of the data contained therein.

The twenty-seven books for which Edison is the primary author have been selected.

Book #	N-Number	Label or Inscription on Front Cover
		[additional information supplied by the editors appears in brackets]

Battery Record Books: Selected

[1]	07-02-05	"Very Important Cell Data"; "Records"
2	07-04-13	"Very Important"; "2 Records"
3	09-00-00.1	"Very important"; "No 3 Records 3 59 left"
4	07-06-00	"No. 4 Record 6624"
5	09-03-24	"No 5 Record"; "Very Important"
6	10-01-02.1	"Battery Very Important"; "No 6 Records"
7	09-01-12	"Storage Bat Important Data"; "Records Battery"

8	11-11-00	"No 8"
9	11-11-01.1	"No 9"
10	11-11-02	"10"
11	11-11-03.1	"No 11"
12	11-11-04	"No 12 average Col R A Reg 1166- "
13	10-03-06	"Storage B. Very Important Data"; "No 13 Very Important"
14	11-11-05.2	"14"; "3381 - 3841"
15	13-10-10	"Fifteen"; "S Battery "; "Very Important"
16	13-10-15.2	"Battery Very Important"; "Sixteen 3842-4471"
17	13-10-20.1	"Battery Very Important"; "Seventeen 4472-5002"
18	12-03-15.2	"18 Eighteen Ent 5003-5555"
19	12-03-16	"19 Nineteen Ent 5556-6122"
20	13-02-10	"Twenty Ent 6123-6725"; "Very Important"
21	13-11-01	"Battery Very Important"; "Number Twenty One Ent 6726-7220"
22	12-03-20	"Twenty Two 22 7221-7796"
23	11-07-21	"Battery Very Important"; "23 Ent 7797-8528"
24	12-01-15.2	"Very Important"; "24 Ent 8529-9240"
25	12-04-17.1	"25 Ent 9241-9901"

Battery Record Books: Not Selected

26	13-04-22.2	"26 9902-10815"
27	12-12-10	"--27-- 10816-11697"
28	13-03-01	"--28-- 11698-12579"
29	13-09-01	"Not very important 29 12580-13457"
30	13-12-27	"Battery Not Very Important"; "30 13458-13657"

Long Tube Books: Selected

[1]	09-00-00.2	"Important Data"; "Records Long Tubes"

Long Tube Books: Not Selected

2	09-12-08.2	"Vol #2. Long Tubes."
3	10-03-03	"Long Tubes. Vol #3"
4	10-04-19	"Long Tubes. Vol #4."
5	10-06-21	"Long Tubes Vol #V"
6	10-09-07	"Long Tubes Vol VI"
7	10-12-13.1	"Long-Tubes Vol #VII"

Long Tube Record Books: Selected

1	09-02-25.1	"Not very important"; "Record Long Tubes"; "10,000 to 11,040"

Long Tube Record Books: Not Selected

2	09-12-15.2	"Dec. 15, 09 Long Tubes 11041 to 13416 Oct. 3, 10."
3	10-10-04	"Oct. 4, 10. to Aug , 11 Long tubes from Bat. wks. 13417 to 15919"
4	11-08-16	"Aug 1911 to Oct 4, 1912 Long Tubes from Storage Battery Nos. 15918 to 18627 Not Wanted "'
5	12-10-04	"From Oct 4, 12 to Mar -9-1914 Long Tubes From Storage Battery #18628 to 21430 Book #5"
[6]	14-03-18	"Long Tubes from Factory From No 21431 to No Mar 17 1914"

Battery Works Tube Books: Not Selected

1	10-01-07	"#1 Book Remarks on Tubes Received From Storage Battery Co; Before & After Charge. Ending Oct. 8, 10"
2	10-10-08	"#2 Book Oct. 8, 10. Remarks on long tubes from Battery works, before and after running. Apr. 8, 11 15481"
[3]	11-04-08.3	"Remarks on long tubes from Battery works Before and after running from Apr. 8, 11 to Oct 19, 11"
[4]	11-10-19.1	"Remarks on long Tubes from Battery Works. Before runing & after. Oct 19 11 to Oct 4, 12 16492 to 18637"

Notebook, N-07-02-05

5170 Cont up

William H. Hasey's
... STATIONER ...
Good Work Promptly
68 William Street,
New York.

	No	50	100
	350	812	840	841
	351	803	820	825
	352	806	832	837
	353	908	927	943
	354	911	945	965
Co	355	880	910	935
	356	912	912	886
	357	860	880	875
50 OT	358	885	892	892
Ni	359	850	850	840
	360	900	890	887
5399 5555 5520 50 OT	361	923	917	908
Co	365	950	945	940
	366	931	925	915
5755 5795 5550	367	943	917	900
Ni	368	898	885	850
	369	826	835	842
5755 5851 5965	370	899	885	877
Co	371	875	855	865
	372	850	852	850
5766 5790 5899	373	862	867	857

354 – some Ni – I. Th – split seam

354 – 400th seam
Bad Slip, Split & Crackers
Not in 450 Run 2 runs; sweated by Cyclone Tabo

Average 885

X Split in long run on Trans by splits.

93%

150	200	250	300	350	400	450	500	550
827	827	807	791	772	775	808	807	856
816	815	797	777	745	738	790	792	793
825	822	812	790	753	738	788	796	785
930	932	925	897	833	757	807	768	1632 ×
955	942	916	835 ×	735	683	660 ×	600 ×	450
912	915	910	897	862	842	880	878	887
870	895	882						
867	868	857			Split			
862	857	837						
815	812	786	778	732	768	818	835	943
877	860	840	827	792	808	845	862	918
895	895	883	873	845	860	883	892	950
890	882	850	821	770	741	815	767 ×	612
865	847	815	807	746	740	802	757	627
850	832	813	811	750	748	815	817	768
807	800	762	748	680	683	825	840	880
813	815	777	687	721	712	811	820	880
846	837	817	792	755	743	842	848	908
837	820	813	786	747	755	820	812	805
822	821	807	778	740	747	808	800	775
832	815	775	740	715	787	826	832	825

Average 775

875 875
6 Pillars
21 Tons

	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
	762													
	753													
	757													
55	832													
359	737													
360	785													
361	795													
367	747													
368	787													
369	790													
370	820													
371	767	786	675											
372	760	780	650											
373	782	800	720											

	No	Cold	50	100	150	200	250	300	350	400	450	500
21000 abrded 21620 – qnnn Cellulose 4500 glycerin Range on after phy mix slickly 5880 5893 5889	374	855	860	867	847	840	828	810	761	Co		
	375	866	877	878	850	853	827	792	762			
Co	376	902	882	887	870	862	842	820	782			
Dump of 855 Except Nu lubber 21000 abraded to 21665 – 5791 5872 5415? –	377	925	920	917	903	910	900	891	880	870	857	850
	378	915	925	896	882	890	885	880	865	881	875	853
Nu	379	935	917	907	892	892	885	872	847	853	847	837
21000 abrded to 21615 – 3500 glycerin qnnn Cellulose mix slickly + qnnn – range on before phy 5840 5920 5897	383	883	895	888	882	870	860	845	803	810	792	770
	384	877	896	888	885	870	878	860	812	817	802	790
Co	385	883	896	900	892	882	880	857	818	830	805	787
21000 – abrded to 21700 – qnnn Cellulose Co lubber – 2500 glycerin – mix – Two strips 3500 seconds break – 5970 5940 5900	386	916	910	915	920	910	890	850*		Co		
	387	933	925	942	932	897	862	743*	622			
Co	388	955	950	948	933	917	907	842	837			
21000 abrded to 21700. Cornstarch – Crosby strips sent Cor – strip not slickly – mix – range on after Cornstarch 150 abraded 4000 glycerin 5817 5814 5828 Co	389	882	902	890	891	865	850	795	767	Co		
	390	765	862	875	876	850	857	822	788			
	391	850	887	885	888	857	850	796	750			
21000 abrded 21875 qnnn Cellulose 4000 glycerine Nu lubber, Cornstarch – range first – 150 abraded mix slickly 5993 5953 5854 Nu	392	917	920	918	898	898	850	717	CO	split – not in seam		
	393	870	875	880	860	850	807	687	CO	seam split –		
	394	845	876	880	830	800	675	572	CO			
21000 – abrded 21900 – qnnn Cellulose 4000 glycerin – Nu lubber, range on after Cornstarch 6253 6255 6100. Nu	395	896	940	770	927	918	842	767	CO	split badly one ring broke		
	396	893	942	940	925	927	810	690	CO	split badly		
	397	892	922	920	912	917	772	660	CO	swelled – split badly		

* 386 swelled in bath.

387 " " split badly

Average 88.6
21 lubber

94
88.0
21 lubber

580	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
375														
376														
377	807													
378	817													
379	777													
380														
381														
382														
383	767													
384	750													
385	760													

	No	Col	50	100	
8000 Co fr. 21000 mixed 21639 after 4000 gave range in before pkg	401	850	868	885	
	402	857	870	864	
5588 5644 5593 Co	403	840	857	878	
21900 — 7000 Co flakes - mix been sticky then washed	404	962	981	998	
	405	900	915	940	
6365 6315 6230 Co	406	932	925	940	
22140 — 6000 Co flakes mix been sticky then washed	407	1000	987	992	
	408	843	862	906	
6290 6265 6137 Co	409	895	897	894	
5000 Co flakes —	410	906	925	904	
	411	893	907	884	
Co	412	922	940	927	
4000 Co flakes	413	856	892	865	
	414	936	915	885	
Co	415	957	917	921	
3000 Co flakes	416	927	940	912	
	417	902	917	827	
Co	418	928	907	818	
2000 Co flakes -	419	993	780	697	
	420	992	815	663	
Co	421	950	872	751	
Cornmeal pkg without mix then Corn w range, pref ad	422	767	855	875	
	423	772	855	900	
Co	424	753	900	918	

150	200	250	300	350	400	450	500	550	
850	841	827	822	805	800	800	790	743	
862	865	831	796	760	776	745	775	667	CO-
862	855	812	822	752	800	742	753	682	
987	978	968	953	905	900	865	837	847	
915	937	927	922	897	872	822	760	721	
915	890	856	853	840	858	787	756	710	
955	943	885	852	857	846	755	782	572	Co
880	886	882	860	828	812	770	837	768	spct
867	866	835	833	815	818	752	852	746	spct
890	875	838	817	785	790	745	700	700	
845	817	665	782	742	735	700	675	672	Co
887	860	805	785	811	758	745	712	697	
825	712	700	687	650					
807	750	712	707	705	Co				
846	840	767	767	762					
770	747	685	682	670					
771	737	738	682		Co				
720	712	677	660	622					
602	592	550	568	CO					
572	530	530	537	CO					
625	590	562	562	CO					
837	696	600	477	CO					
907	775	670	561	CO					
865	731	635	525	CO					

Rashy apt.

Cup	600	750	800	850	900	950	1000	1050	1100	1150	1200	1250
401	725											
402	585											
403	630											
404	782											
405	625*											
406	665											
408	667* 782											
409	675											
410	615											
411	600											
412	602											

	NO	Cold	50	100
Corrugated after soaking a day & after many pulls on	425	815	865	886
	426	841	887	902
Ni	427	850	905	900
Mix dried before plug	428	837	841	938
	429	850	865	868
Co	430	837	842	850
	431	776	801	785
"	432	812	822	806
Ni	433	837	835	817
changed to heavy rod to have chgs to correspond to chgs 50 - then this very	434	868	907	896
	435	882	920	911
6305 c211 6355 Co	436	892	923	931
plug with U charged rod —	437	823	843	843
	438	845	870	867
Co	439	822	842	857
Copper Hg Prime Recovered	440	842	845	847
	441	818	842	850
Co	442	842	820	855
Copper Hg Prime Recovered	443	855	862	875
	444	880	885	895
Ni	445	880	875	885
flat plates.	446	466	490	492
	447	450	487	450
	448	473	502	485

* 445 attached to aplat.

Old Prime 25

X splat

150	200	250	300	350	400	450	500	550
800	877	800	796	646				
832	890	827	750	683	Co			
830	831	822	662	630				
860	818		792	746				
832	840		812	788	Co			
830	830		822	788				
787	752	755	703	710				
807	787	787	773	750	Co	Slightly cold rod		
815	783	767	742	713				
916	910	892	873	845	857	792	795	763 Co
920	911	880	858	833	837	765	762	697 Ni
925	913	900	880	841	822	777	742*	660 Ni
837	817	782	760	732	727	700	677	Co
858	841	822	805	757	760	702	700	
870	865	822	803	795	798	735	730	
857	841	840	817	815	787	785	762	712
860	842	850	832	840	807	822	830	780
866	848	860	845	850	825	837	838	795
885	867	880	862*	862	792	780	720	762
900	888	892	872	875	775	770	712	669
892	868	865	835	840	722	692	650*	600 *
485	428	402	415	363				
442	400	397	420	367	Co			
467	437	442	390	402				

91% Ni

600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
434	685												
440	712												
[illegible]	[illegible]												
[illegible]	[illegible]												
[illegible]	[illegible]												
[illegible]	696 X												
445	600												

	40	Cold	50	100	150	200	250	300	350	400	450	500	550
flat plti	449	455	471	480	450	388	410	380	351	Co			
	450	450	487	470	432	393	400	407	377				
assembled with old cions	451	807	827	826	808	797	795	772	721	743	697	692	697
	452	830	861	846	832	850	835	817	785	777	755	745	721
Co	453	797	846	843	838	812	792	762	725	772	737	717	656
Dup of 451	454	827	857	850	845	837	822	800	741	732	667	690	Co
	455	846	881	862	850	837	830	807	755	750	720	735	
Ni	456	830	835	833	822	827	830	810	753	767	745	765	
Leo porous 7500 - 21600 -	457	775	810	812	825	800	792	757	720	Co	Spldmann		
	458	750	810	800	808	785	775	740	688				
Co	459	750	780	777	780	752	750	716	675				
Dup of 457 more H_2O added 22060 -	460	835	857	830	810	790	770	770	697	682	630	640	581 Co
	461	895	925	920	920	930	917	910	852	877	855	875	866
Ni	462	835	886	871	863	875	862	850	825	810	785	800	787
glucose 3500	463	812	843	840	832	817	800	761	792	772	720	728	Co
	464	822	871	858	847	820	800	787	781	780	682	696	
Co	465	833	847	850	825	842	827	813	793	782	732	735	
glucose 3500	466	875	871	868	850	838	825	815	737	718	670	695	Co
	467	868	871	877	875	850	842	835	800	792	762	782	
Ni	468	845	871	850	853	825	817	792	750	745	700	727	
glucose 3500 7000 Co Gate	468	832	590	840	877	752	712	712	637	Co			
	469	855	850	832	815	782	725	766	677				
Co	470	868	887	886	856	812	795	790	732				
									715		837		
									899		effem		
									2/1				

600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250

		50	Cold	50	100
Oval rings –		474	827	850	852
		475	817	835	840
	Co	476	802	836	832
Oval rings		477	881	908	905
		478	880	895	905
	Ni	479	923	941	955
Remnant 356 – Ni rings –		480	892	897	907
	Co	481	897	900	915
Remnant 368 + 371 –		482	845	843	843
		483	825	842	838
	Ni	484	812	837	834
Remnant 371 – 374 – Duplicating 368		484½	862	900	900
		485	872	896	858
	Ni	486	832	851	862
Remnant 401		487	872	893	891
	Ni	488	855	860	892
Dup of 404	Co	490	968	921	886
Remnants 410	Co	491	935	900	866
" 413	Co	492	1025	936	863
" 350	Co	493	768	800	803
" 383	Co	494	865	885	897
"	Co	495	843	783	887

873
72

x split

150	200	250	300	350	400	450	500	550	
837	810	802	776	811	772	750	832	730	
837	808	800	785	777	745	766	788	737	Co
827	808	805	785	780	762	740	807	760	
900	875	865	835	812	817	800	750	715	
906	902	862	850	825	777	735	642*	682*	Co
941	925	912	900	780	885	885	870	845	
892	903	892	885	808	850	845	862	840	
910	913	893	906	887	870	865	816	846	
817	831	822	832	825	807	812	815	797	
827	835	820	823	825	812	800	816	782	Co
822	838	812	800	782	765	755	725	762	
900	891	890	865	843	902	877	902	865	
882	860	867	870	887	880	862	872	828	
850	842	837	792	787	850	840	872	808	
880	844	830	821	833	850	822	840	815	
871	850	832	823	813	850	832	841	826	
838	827	840	773	750	755	822	697	592	Co
800	786	780	745	730	797	767	776	717	Co
830	785	750	700	Co					
805	783	777	755	741	757	735	747	727	Co
898	878	870	857	862	882	862	872	861	
883	871	850	850	850	862	837	867	850	

605
97.5%
96

600 650 700 750 800 850 900 950

1000 1050 1100 1150 1200 1250

		No	Cold	50	100	150	200	250	300	350	400	450	500
Remnants 365		496	950	936	937	908	900	875		871	937	906	893
		497	922	891	872	850	827	800		792	860	822	820
	Co	498	897	892	905	900	857	778		750	650	550	443 x
New Cu Hg Nano		499	947	850	865	852	822	815		815	848	820	837
		500	847	847	841	825	807	785		770	776	765	760
	Co	501	847	917	915	916	910	900		897	917	885	922
Co of Cake not run Hydro Hydrogenation		502	892	892	900	885	860	850		830	900	837	855
	Co	503	850	872	868	867	831	825		800	850	815	850
"		505	877	892	900	865	830	827		763	882	850	877
	Ni	507	850	867	857	838	817	820		767	847	825	867
50 Single Tamps		508	772	765	787	755	731	732	Co				
		509	750	767	767	727	710	700	Swelled on bottom				
	Co	510	762	765	768	725	687	662	Split a little				
50 Single Tamps		511	912	930	955	952	950	937		940	945	907	952
possibly mistaken Co	Ni	512	938	950	945	933	910	877		771	935	900 x	933 x
250 Mixty K Silicate		514	845	866	857	845	828	815	772				
		515	847	838	832	833	821	817	797	Co			
	Co	516	780	800	791	785	777	757	690				
"		517	821	847	830	830	806	802	772				
		518	792	800	790	792	770	771	725	Co			
	Ni	519	847	847	840	842	835	820	790				

57 (A) Split

x Remained wedged in tube after being Split in half

550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
848														
762														
803														
733														
865														

	No	Cold	50	100
250 mlg Cu Sulphate	525	795	830	832
	526	802	846	850
Co	527	815	845	837
	528	750	775	777
"	529	737	745	755
Ni	530	781	806	800
250 mlg Bismuth Nitrate	531	822	840	855
	532	815	817	847
Co	533	813	840	850
	534	825	857	878
"	535	792	832	872
Ni	536	828	860	900
250 mlg K Manganate –	537	816	875	900
	538	836	887	907
Co	539	775	842	847
	540	875	890	916
"	541	888	897	917
Ni	542	900	915	935
250 mlg Lead Oxide	543	750	800	807
	544	745	767	750
Co	545	821	813	780
	546	855	898	886
"	547	850	886	875
Ni	548	812	886	868

150	200	250	300	350	400	450	500	550
840	845	840	825					
850	850	837	806	Co				
840	842	833	815					
775	788	782	762					
770	762	761	737	Co				
802	796	790	757					
812	800	737						
810	807	750	Co					
826	802	777						
875	867	850	887	850	780	775		
850	842	832	822	825	760	745	Co	
876	867	845	822	820	742	732		
870	870	835	821	817	650			
870	870	812	752	725	595	Co		
821	800	770	752	712	485			
887	887	870	837	825	758			
887	895	877	847	812	744	Co		
908	900	880	775	765	680			
825	823	802	782					
765	760	755	732	Co				
792	787	786	750					
900	903	896	880	870	882	818	767	
872	875	845	822	815	800	740	725	Co
875	862	850	812	810	792	732	735	

537-5-9 (Recovered amount) 2 gr. Cu per liter
Run the run 537 777 } 92% of amount
538 777
539 755

600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250

561 – 765
562 720
563 – 800 } after 500 Rinse trout brook Cy
Recovered but never clear

	No.	Cond	50	100	150	200	250	300	350	400	450	500	550
100 mlg each Ba Ott CaOH													
	549	827	840	850	850	855	832	637	615				
	550	812	800	856	817	857	840	695	712				
Co	551	827	855	871	820	802	750	662	640				
	552	882	883	910	896	910	750	705	667				
"	553	862	842	886	850	890	840	722	717				
M	554	846	855	881	850	870	870	583	650				
250 mlg Sb Hydroxide	555	801	840	823	847	792	815	715	775	Co			
	556	835	845	835	850	800	781	547	665				
Co	557	796	800	788	800	730	735	522	650				
	558	868	877	880	880	855	850	722	727				
"	559	870	877	885	900	881	870	750	660				
M	560	862	896	886	885	867	880	757	840				
250 mlg K Chloride	561	832	885	866	875	850	845	792	750	747	645		
	562	855	891	881	885	862	846	792	750	730	633	Co	
Co	563	882	912	903	910	897	892	855	835	823	743		
	564	850	878	870	880	877	883	860	852	865	835	840	
" 4,560 mg	565	867	900	890	900	897	898	865	860	862	817	812	
M	566	883	900	890	897	887	886	842	830	800	787	750	
100 single Temp	643	700	817	795	787	742	737	693					
	644	795	815	802	795	770	762	750	Co				
Co	645	797	825	820	820	787	783	755					
	646	807	855	866	850	845	850	817	810	850	827	875	817
"	647	795	845	866	860	837	847	825	787	872	827	865	820
M	648	793	830	830	836	820	835	817	807	845	812	850	800
21600 – Co Ether 250 mlg Tilanate Potash	567	837	838		757								
	568	825	818		737								
	569	827	820		766								

600 650 700 750 800 850 900 950

1000 1050 1100 1150 1200 1250

Badly broken — Split — 98.6 — x seam split open slightly but very little

		No	Cold	50	100	150	200	250	300	350	400	450	500	550	
100 Double Tamp		649	850	877	841	891	875	891	865	845	875	817	830	780	
		650	800	837	835	836	813	813	790	775	793	788	767	900	
	Co	651	831	825	877	872	857	852	860	812	850	817	802	740	
"		652	890	917	932	925	912	922	912	892	932	900	937		
		653	908	936	950	955	950	950	947	925	932	917	946		
	Ni	654	927	950	940	950	941	945	955	937	957	925	945		
75 Double Tamps		655	915	900	930	922	906	897	878	848	927	900	907 x	837	Co
		656	840	875	881	873	845	797	782	675	672	567 *	505 x	632 *	
	Co	657	865	880	895	887	870	850	807	775	822	792 *	775		
"		658	920	967	982	987	975	967	957	910	955	935 x	960		
		659	910	941	955	948	942	932	890	835	950	905 x	917		
	Ni	660	953	975	996	995	978	967	940	906	982	937	952 x split		
75 Single T		661	841	903	915	912	892	886	877	870	900	862	877	805	Co
pbly mislabeled ?		662	905	906	930	921	900	877	822	768	800	747 x	715 x	600	
	Co	663	878	900	907	912	890	880	857	815	885	835 x	832 x split	745	
75 Single T		664	772	803	787	790	760	745	Co	Seam split badly					
		665	775	796	788	792	767	772							
	Ni	666	792	803	795	800	770	765		slightly split on seam					
flake thru 50 mesh		673	895	882	885	885	806	812	775	735	842	787	787	730 x	
		674	922	911	930	916	900	885	870	831	900	887	885	807	
	Co	675	612 ?	920	935	916	877	853	860	845	912	867	840	712	
only 4000 flake thru 50 mesh		676	1026	945	875	782	727	717	697	Co					
		677	1032	976	890	817	732	740	695						
	Co	678	1052	930	762	737	692	687	657						

600 650 700 750 800 850 900 950

1000 1050 1100 1150 1200 1250

	No	Cold	50	100	150	200	250	300	350	400	450	500	500
only 2000 flake thro 50 mesh	679	1023	665	565	550	477	Co						
	680	830	630	520	550	472	CO						
Co	681	925	617	442	442	392	CO						
only 2000 flake thro 50 m 3:4 Coke flat plate	685	461	357	362	335	350	CO						
	686	462	340	350	323	350	CO						
	687	413	337	360	343	357	CO						
	688	411	362	366	330	335	CO						
	689	452	352	347	321	317	CO						
21000 absorb to 25485 – 2000 Co flake 4000 glue 50 DT very wet – not sticky – Co	707	720	820	812	767	572	CO						
	708	867	953	972	941	772	CO	all burned very bad –					
	709	800	926	967	772	520	CO						
Reg green absorb water 24 hours Gelatin – Ni	710	993	1060	1025	925	721	CO						
	711	1023	1056	1057	1025	872	CO	split – 2 pieces – 6 ply split –					
	712	1020	1065	965	791	632	CO						
Reg green absorbed. Continuing 24 hours Co	713	925	931	935	842	660	Co						
	714	921	956	925	947	818							
	715	825	940	917	876	753							
Soaked in H_2O without changing water for 18 hours then reconstituted. Co	722	885	806	790	781	750	733	Chgd 10 not 18 – also reconstituted various –					
	723	805	821	805	821	807	813		777				
	724	942	857	807	775	757	755		813	793			
Co liter Reg – 20% Caustic Soda – Co	725	822	822	822	750	792	782	750	717				
	726	845	852	845	821	817	800	787	772	Co			
	727	836	827	820	797	787	777	750	737				
	728	868	867	848	833	827	817	782	790				
"	729	886	860	857	832	810	810	736	750	Co			
Ni	730	885	915	887	857	850	845	820	823				

– up to 350 by the manipulation made by reconstituting –

550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250

15% Caustic Soda	No	Cold	50	100	150	200	250	300	350	400	450	500	550	
	731	800	857	840	825	827	797	772	773	750	740			
	732	778	800	812	790	797	780	775	760	750	762	Co		
Co	733	757	825	795	791	795	782	762	750	733	745			
	734	757	835	825	807	812	800	762	735	680	742			
"	735	717	800	790	775	770	750	725	715	687	715	Co		
Ni	736	742	807	806	780	787	767	745	750	748	750			
Run Cold					955	1000	1002	987	1005	962	967			
	752	900	985	993	861	880	885	882	890	858	862			
	753	802	880	887	912	917	944	937	950	910	922			
Co	754	815	925	938										
	755	800	917	913	900	922	920	900	922	853	870			
"	756	877	967	980	972	987	980	972	987	938	945			
Ni	757	917	997	1010	990	972	996	987	1015	955	975			
Run Cold Co	758	831	950	967	927	960	962	949	965	960	930			
	759	832	918	940	903	930	945	915	937	937	900			
	760	895	992	1000	967	997	1012	977	1037	1000	957			
	761	960	1030	1045	1040	1055	1055	1030	1055	1050	1012			
"	762	877	950	972	965	982	997	982	1010	1013	970			
Ni	763	945	1025	1032	1017	1030	1033	1020	1048	1032	1007			
Reg Sorbo) one week in 21% before put on test	773	842	842	840	792	762								
	774	825	845	842	823	772	Co							
Co	775	872	850	847	787	*685								
	776	900	900	872	833	777								
"	777	855	900	900	862	832	Co							
Ni	778	882	910	907	910	892								

* 775 very elliptical & small

600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250

	No	Cold	50	100	150	200	250	300	350	400	450	500	550	600
3:4 Reg Co flake mix														
100 admos smooth	827	518	507	490	437	450	450							
250 admos Corning Ty	828	480	500	472	407	463	435							
	829	487	482	468	402	462	392							
	830	517	502	455	412	430	390	Co						
	831	432	465	430	376	367								
Reg but green mixed														
Long Time to insure	903	767	872	860	842	817								
distribution & break up	904	828	877	867	815	790	Co							
aggregation - mix sticky - Bubbly	905	830	882	835	775	735								
	906	892	945	922	925	875	841	87	840					
"	907	840	895	900	875	845	850	842	850					
Ni	908	875	915	910	873	825	820	790	835					
42000 Ung 20 - 20 cc														
Ethyl Al - 18000 flake	1130	853	893	915	792	772								
4000 glue	1131	905	921	925	860	883	Co							
Co	1132	852	875	875	832	820								
	1133	895	915	920	800	875	807	718						
"	1134	907	938	950	887	893	797	700	Co					
Ni	1135	925	943	947	883	850	762	638						
42000 - 18 cc Ethyl Al -														
95% - 18000 flake Co.	1142	792	867	892	812 *	775								
5000 glue - mechanically	1143	800	847	860	350 *	615	Co							
water Sled it. Co	1144	887	948	957	892	827								
	1145	797	903	905	847	825								
"	1146	840	928	932	862	815	Co							
Ni	1147	900	953	932	792	781								
42000 - 19 cc Ethyl (manipulated)														
- virtual weight / 51480 -	1148	870	920	922	817	837								
still dump 18000 flake Co	1149	827	840	817	745	696	Co							
8000 glue Co	1150	906	903	875	820	815								

* 1142-3 - Split - 3 pieces

	No	Cold	50	100	150	200	250	300	350	400	
"	1151	945	967	985	920	905	870	812*	987	687	Co
	1152	927	961	972	912	910	880	837	912	675	
Ni	1153	908	903	937	822	775	805	557	515X		
42000 18 cc Ethyl scent. of cohol 8 cc glycerol. Total 18 cc Phono Co flute mix stock Cokes on plunger	1154	770	887	887	777						
	1155	827	866	865	792	Co					
Co	1156	817	850	835	755						
"	1157	871	947	950	830	797					
	1158	854	938	942	872	846	Co				
Ni	1159	847	898	900	823	795					
42000 18 cc Ethyl of cohol 6 cc glycerin 18000 flute Co stock	1160	772	822	822	783						
	1161	781	845	852	761a*	Co					
Co	1162	776	816	832	750						
"	1163	881	940	940	765						
	1164	890	960	962	770	Co					
Ni	1165	858	860	837	820						
42000 18 cc Ethyl of cohol 8 cc glycerin. Not in Cuby stick to end plunger	1166	866	858	842	700						
	1167	815	800	762	713	Co					
Co	1168	878	867	827	740						
"	1169	926	950	940	732						
	1170	923	968	965	725	Co					
Ni	1171	947	972	927	771						
18 cc ammonized Ethyl	1172	845	880	882	717*						
	1173	908	900	900	820	Co					
Co	1174	900	907	897	832						

* split at 5 cm –

Barely split + broken

*1161 Split badly

X 1172 split al. Ethy.

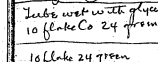
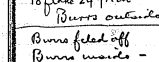
	No	Cold	50	100	150	200	250	300
"	1175	943	937	932	867	842		
"	1176	930	947	917	765	780	Co	
Ni	1177	891	900	850	855	822		
Nickeled – Coffeeka – Dry pkg – 100 section 16 flakes 37 green – thro 20 –	1183	850	885	883	887	887	927	890
	1184	848	860	867	856	867	902	847
	1185	823	900	845	907	895	936	907
	1186	825	860	855	792	712	692	
	743			892	847	800	767	
	744			877	812	800	790	
	745			845	830	767	692	Co
	746			843	937	910	927	
	747			950	890	770	870	
	748			945 *				
X748 nickeled & swelled	1187	840	865	865	850	872	Co	
5 flake 12 green thro 40 300 section – Dry pkg	1301	902	955	962	948	957	971	941
Ni	1302	882	880	866	850	830	767 *	600
5 mil flake No – 12 mil green – 300 section	1308	906	857	882				
[redacted]	1309	860	657	628	Co			
12 green 5 mil Coffeeka flake 1/2 thickness 300 section –	1310	892	750	738	Co			
	1311	900	895	862				
450 section Coffeeka 1/2 thick – 6 mil flakes 17 mil green thro 60 mesh	1319	670	1056	1077	1082	1097	955	535
	1320	671	1056	1070	1108	1095	1063	662 Co

* split seam

Not split 3 years

	No	Cold	50	100		150	200	250	300	
Annealed one, 300 seconds 5 Ni floats 12 grams burn 9% Pb_2O_3 [redacted]	1331	750	827	783	Co					
	1332	737	820	782						
Annealed one, [redacted] 5 Ni floats 12 grams 300 seconds - cool with Effigl	1335	600	465		Co					
	1336	650	545							
Annealed one, 5 Co floats 12 grams burn 60 [illegible] 300 deg - cool [illegible]	1337	781	870	905		910	932	922	727	Co
	1338	680	877	936		938	932	885	775	
300 seconds Dry 5 Co [illegible] burning 12 [illegible] 1½ hours burn 60 -	1329	825	882	852	Co					
	1330	858	900	852						
Packed with plunger	1383	705								
	1384	797			Co					
	1385	715								
	1386	757			Co					
	1387	763								
	1388	800			Co					
	1397	876								
	1398	851			Co					
	1399	775								
	1400	850			Co					
Enclosed -	1401	832								
	1402	857			Co					
	1403	827								
	1404	838			Co					
	1405	702								
	1406	786			Co					
10 floats Co 24 grams [illegible] 1 [illegible] burn [illegible]	1407	736								
	1408	780			Co					

	No	Cold	50	100	
Review of last groups - Tamp flake lower -	1409	687	Co		
	1410	640			
Tamp foil 15/1000 less dia	1411	865	Co		
	1412	867			
30/1000 less dia -	1413	900	982	975	Co
	1414	875	950	920	
60/1000 less dia	1415	925	857	790	Co
	1416	902	910	762	
10 flake 24 g 2 1/2 lb cut -	1417	815	Co		
	1418	840			
1 1/2 lb cut -	1419	740	Co		
	1420	750			
Hole thru Center of mix - 1/16 -	1442	800	Co		
	1443	787			
150 sections - Ni tubes Co flake New plunger	1252	900	Co		
	1253	911			
	1254	895			
	1255	900			
	1256	887			
Ni tubes Ni flake 150 sections - green 1st - [redacted]	1218	910	Co		
	1219	892			
	1220	897			
	1221	900			
	1222	897			

	No	Cold	50	100		150	200	250	
Mi placed tubes flake 1st 150 sec Co flake	1242	900	975	985					
	1243	880	967	977	Co				
	1244	923	952	982					
	1245	907	857	872					
	1246	960	980	990					
Tube dried outer hunter before [illegible] open saturated with Ethyl	1292	913	925	847					
x indicum	1293	887	590	570	Co				
150 sections 7 x 3	1294	857	572	525					
DT ~	1295	953	920	910					
	1296	943	935	915					
150 sections drop flake graft	1297	621	597	582		570	555	626	625
	1298	627	592	595		575	550	625	632
Tube wet with glycerine 10 flake Co 24 from	1425	847	Co						
	1426	797							
10 flake 24 from Burrs outside	1432	838	Co						
	1433	845							
Burrs filed off	1444	903	961	960					
Burrs inside ~	1445	902	917	942	Co				
Burrs more filed off	1446	900	937	962					
	1447	892	940	912					
	1434	860	Co						
	1435	887							
	1436	862							
	1437	872							

	No	Cold	50	100	
U	1438	850			
	1439	875			
same U	1440	865			
	1441	850			
Spiral tube N	1448	830	Co		
	1449	820			
No rings only spiral tube	1450	840			
	1451	832			
2400 gm flow filed off	1452	875			
	1453	882			
Burr all filed off	1454	880	895	830	Co
	1455	912	940	867	
Rogero No 1 gm flow	1456	887			
	1457	867	Co		
Rogero No 2 gm flow	1458	875			
	1459	877			
Packed with Rubber Tipped plungers 5 mil/% Merck Co 24 gram Merck 150 machine	1345	937	1007	960	
	1346	925	982	967	
10 Co Feb 24 gram Thro 85 OT fine millimicrony	1358	772	885	920	
	1354	875	937	968	
ditto but put in separately	1355	742	907	937	Co
	1356	670	877	882	
ditto be made similar in every	1357	820	942	985	
	1358	850	982	998	
ditto floats 1st	1359	645	855	872	
	1360	700	895	915	

	No	Cond	50	100		150	200	250		300	
	1389	802									
	1390	790									
	1391	832									
	1392	831									
	1393	810									
	1394	833									
Rough-	1395	857									
	1396	835									
Rogers opened cylect zero perf No plated- 60 lbs no less than of plunger 10 lb flat 24 gram Wire 20 No 1 style - 4 gram flake ½ open bottle green open 4641	1464	1025	1087	1047	24 x	1022	1062	930	Co		
	1465	1045	1050	1020		1012	1005	862			
	1466	1060	1065	1026		990	968	841			
Dup of above No 2 style - Hubergreen open a more time 4229	1467	1087	1012	976	23 —	910	912	785	Co		
	1468	1075	1073	977		905	925	770			
	1469	1060	1067	1015		937	950	803			
Rogers cylect. zero perf Reg sized plunger 10 lb 24 g Wire 20 lbs simultaneously No 1 style - 4211	1470	1055	1068	1055	38 +	1070	1042	987	810	815	
	1471	1057	1067	1045		1070	1050	996	847	795	
	1472	1055	1070	1056		1060	1032	977	815	747	
Rogers cylect. zero perf No 2 style - 4229	1473	1045	1073	1042	16 +	1042	1025	979	Co		
	1474	1047	1050	1040		1027	953	868			
	1475	1075	1060	1025		1015	933 x	840			
Dup of above No 3 style - flake all open bottle green 4229	1476	1035	1036	1000	5 —	995	948	882	Co		
	1477	1060	1057	1023		1025	982	900			
	1478	1050	1047	1025		1011	963	900			
Rogers Cylect zero 10 lb zero wire 20 green Cracker dice only two are filling No 1 style - 5447	1494	1067	1210	1212	164 +	1222	1132	641 x	Co		
	1495	1037	1232	1215		1232	1155	732			
	1496	1107	1263	1242		1223	1100	890			

1975 Sized
1977 "
1978 Cut
1984 Sized
- 1989 "

1997 Sized
98 "
99 "
1506 "

42 | 1050 / 840 / 210

1510 last 6 only
1512-13-14-16-17-18-22 4 23 [illegible] Clear 1100

	No	Cal	50	100		150	200	250	300	
Dup of 1494	1497	1100	1260	1227	161	1187	1100	450 944		Co
to 2 style	1498	1020	1177	1167		1220	1200	995 944		
5.488	1499	900	1072	1115		1200	1187	933 944		
Rogers eight 2400	1500	1003	1055	1043	996	1055	1065	1085	868	
10 ch 24 green	1501	1055	1083	1057		1070	1078	1070	847*	
Two wunhlings before cutting										
Style 1 4.487	1502	1075	1075	1092		1087	1066	1008	867	
Dup of 1500	1503	1087	1110	1095	46	1082	1070	1043	846*	
style 2	1504	1110	1125	1095		1077	1072	992	895	
4.344	1505	1092	1100	1095		1045	1017	890 944	841	
Rogers eight 2400	1506	1070	1107	1097	998	1082	1020	896		Co
10 ch 24 green	1507	1080	1112	1097		1085	1067	888		
3 wunhlings before cutting										
Style 1 4.424	1508	1071	1100	1062		1062	1028	981		
Dup of 1506	1509	1046	1100	1095	148	1100	1097	948	798*	
style No 2	1510	1062	1112	1097		1092	1100	1100	977	
4.419	1511	1050	1086	1075		1070	1077	1085	997	
Rogers eight 2400	1515	1068	1092	1069	65	1065	1062	948	787	
burs around off										
10 ch Co 24 gr 1	1516	1067	1090	1077		1072	1070	1035	845*	
Style No 2										
Style 1 wunhlings cut before 1517	1517	1046	1066	1055		1050	1065	1010	906	
Rogers eight 2400	1518	1053	1075	1055	55	1057	1050	973		
burs around off										
10 Co 24 green Rno 40	1519	1072	1102	1055		995	967	807		Co
Style 1 —										
4.300	1520	1100	1103	1055		1017	948	840		
Dup of 1518	1521	1077	1068	982	22	952	966	803		
Style No 2	1522	1078	1078	1037		1008	1000	770		Co
4.150	1523	1052	1037	972		927	927	707		
10 Co 24 green Style 1 4.471	1512	1113	1108	1087	5	~~1076~~	1076	1033		
Dumbling — Rno 40										
Clear 10 and 10 clear 3 10 next 10	1513	1100	1107	1080		13	1053	953		
clear 6 dirty										
Cobbled and 903 from 1513	1514	1120	1127	1082			967	862		

	No	Cold	50	100		150	200	250	300
Rogers Eight 2400 beers ground off 10 Co 24 green lime 60 Style 1 – 4175	1524	1095	1080	972					
	1525	1042	1022	962					
	1526	1108	1075	1035	Co				
Drop of 1524 Style No 2 4213	1527	982	975	935					
	1528	1047	1040	972					
	1529	1057	1030	980					
Rogers Eight 2400 pearl – 10 Co fl lime 20 2 mily green 1 3 mily K chloride lime 100 mmol green ohe mixed so 24 mily green Style 1 4213	1530	956	993	1015		107	1011	972	853
	1531	912	963	982		995	1000	950	860
	1532	827	862	910		912	917	971	690
Drop of 1530 except 10 Co flake mixed style 1 –	1533	805	855	897		897	900	897	
	1534	847	892	912		915	920	750	Co
	1535	900	945	960		962	962	820	
Rogers No 1 pearlin 10 flake Co 24 g both put in at once	1460	921	Co						
	1461	967							
Rogers No 2 pearlin 10 flake Co 24 g both put in at once –	1462	962	Co						
	1463	922							
Rogers Eight 2400 – 10 Ni flake Y/L black 24 g lime 20 Style 1	1559	867	842			862	911	887	
	1560	867	830			860	905	905	
	1561	892	862			882	912	874	
Drop of 1559 Style 2	1562								
	1563								
	1564								
Rogers 2400 – 10 Ni flake Y/L black lime Hydrate 20 mg 24 g green 20 mg Style 1	1575	922	907	952		950	975	976	
	1576	892	890	922		927	942	950	
	1577	907	890	932		942	962	970	
" Style 2 –	1578	820	Co						
	1579	850	Co						
	1580	852	Co						

	No	Co	50	100		150	200	250	
Drop of 1467	1595	992	875						
Style 2	1596	967	900	Co					
Run in 33% KOH.	1597	1035	987						
Rogers 2400 spiral tube - 10 Co 24 gr 20 inch	1601	877	977	1017		1035	1048	1027	
Style 2 Reg plunger	1602	915	977	1010		1020	1030	1017	
Rogers 2400 Eyelet spiral tube - 48 Co 24 gr no jumpo	1603	975	1017	1030		1027	1027	850	Co
style 20 Reg plunger	1604	1004	1050	1045		1037	990	667	
Drop of 1554	1609	957	981	1020		1037	1047	970	Co
Except 10 Co tube 24 gr 18 in thru 20 packed with new plunger 4 sections - style 2 plunger straight -	1610	892	957	980		1010	1012	1032	
	611	812	977	985		1011	1030	1027	
Rogers 2400 - eyelet 10 Co 24 gr thru 20	1612	960	1030	1040		1050	1058	917	Co
do with collet square feed machine style 1 Reg plunger 237/1000	1613	970	1020	1042		1050	1012	897	
	1614	992	1023	1027 x but		1045	1063	877	
Drop of 1612	1615	970	982	975 x "		975	961	805	Co
style 2 -	1616	990	990	950 x "		998	898	832	
	1617	950	990	987		1003	1023	842	
Rogers 2400 eyelet 10 Co 24 gr thru 20 square feed style 1	1618	897							
Run up 177/1000 dia -	1619	928	Co -						
	1620	886							
Drop of 1618	1621	898							
style 2 -	1622	871							
	1623	868							
Rogers 2400 eyelet 10 Co 24 gr thru 40 square feed style 1	1624	972	1015	1005		1021	972		Co
237/1000 dia -	1625	976	1018	1020		1025	1025		
square feed 40 inch 237 plunger filled clear in hole, part guide in -	1626	987	1025	1010		1031	1040		

	No	Cal'd	50	100	150	200	Cl, Sulph, Sentrophet	
Dip of 1624 Style 2	1627	1030	1060	1037	1017	972	822	Co
	1628	1012	1063	1025	1040	947	847	
	1629	1003	1039	997	1007	900	817	
Rogers 2400 eyfet 10 Co 24 gr thru 40 square feet style 1 177/1000 plunger	1630	940	988	892	918	823		Co
	1631	940	991	965	918	828		
	1632	980	991	975	935	987		
Dip of 1630 Style 2	1633	930	947	947	922	817		Co
	1634	991	1002	962	945	787		
	1635	967	986	915	905	865		
Rogers 2400 eyfet 10 Co - 24 gr thru 60 square feet 237/1000 plunger Style 1	1636	967	1006	941	980	932		Co
	1637	936	986	958	965	880		
	1638	977	1010	970	968	927		
Dip of 1636 Style 2	1639	987	1025	977	988	925	893	Co
	1640	970	992	975	972	900	863	
	1641	970	1007	987	988	932	775	
Rogers 2400 eyfet 10 Co 24 gr thru 60 square feet Style 1 177/1000 plunger	1642	935	942	902	878	800		Co
	1643	932	972	948	937	892		
	1644	960	945	892	908	941		
Dip of 1642 Style 2	1645	990	1020	800	922	845		Co
	1646	1008	957	807	897	796		
	1647	972	942	840	862	600		
Dip of 1536 Front Co flake 3.3 mil Co 8 mil 3 gr thru 20 Style 1 In 3 feeding 20 square feet thru Temp burlap 39 feet	1648	1020	1055	1018	1007	873		Co
	1649	1050	1082	1018	983	885		
	1650	1060	1085	1035	1028	896		

	40	Coll	50	100	150	200		
Dup of 1539								
Except 5 mingle flake 12 [illegible] 20 m -	1651	1020	1066	1017	1000		800	
Style 1 Cut intermediate -	1652	1047	1080	1036	1000		810	Co
Then [illegible] 20 m					981		817	
Ring plunger 2 square feed	1653	1015	1060	1010				
Dup of 1542	1654	1047	1055	1011	988	868	800	
Except 5 mingle flake - 12 gram 20 mesh style 1	1655	1015	1050	1040	1040	1022	965	Co
3 section feed - Trump twice					1015	981	937	
Ring plunger - square feed close	1656	1000	1032	1030				
Dup of 1542	1657	982	995	980	993	953	838	
Except 7 sections put - then	1658	938	915	918	936	877	775	Co
Trump twice - 20 m Ring plunger					930	897	832	
Square feed	1659	920	940	917				
Dup 1545	1660	862	885	877	885	893	838	
Except put - 6 sections -	1661	850	897	878	891	871	792	Co
then trump twice					898	887	815	
Square feed -	1662	880	908	895				
Rogers 2400 eight.	1663	962	1002	1007	1010	947	891	
10 flakes - 24 grams 20 mesh	1664	978	1037	1042	1040	1033	916	Co
style 1 plunger 245/1000					1045	1010	875	
Square feed -	1665	968	1022	1027				
Rogers 2400 eight.	1666	935	992	1000	1005	985	907	
10 flakes 24 grams style 2	1667	937	995	985	1000	992	882	Co
245/1000 plunger - [illegible]					975	1002	850	
Square feed - X	1668	950	982	992				
Rogers 2400 eight -	1669	1022	1022	1030	1035	1047	900	
10 flakes 24 grams 20 m style 1	1670	1015	1000	967	967	922	847	Co
245/1000 plunger hole above					1007	998	900	
Lots small [illegible] in lots -	1671	1000	1017	1015				
Square feed -								
Dup of 1669	1672	968	975	965	962	890		
Style 2 -	1673	987	985	965	976	850	Co	
	1674	999	1000	1000	1000	975		

X Changed - look guide out - and back to old [illegible] - plunger 245 - [illegible]

Ring

Mi Flute

No	Cold	
1675	890	Co
1676	882	Co
1677	883	Co
1678	891	Co
1679	882	Co
1680	895	Co
1681	887	Co
82	900	Co
83	882	Co
84	758	Co
85	717	Co
86	702	Co
87		
88		
89		
90		
91	720	Co
92	720	Co
93	762	Co
1694	802	Co
1695	795	Co
1696	820	Co
1697	808	Co
1698	813	Co
1699	818	Co

No	Cold	50	100	150

1732 Run & Run — 1070, 1090, 1070, 1027, 1045, 1047, 1012, 977

then eight 10 feet 10 ft — 5th run below — * eight 2 places

1740 to 1749 3th run — 900, 855, 893, 898, 927, 872, 847, 850, 832, 850

then eight 10 feet 10 ft

Run below —

	40	Cap	50	100	150	200	250
		XX					
New square wide boarder. 1 board 8 feet fallen — 10 flasks Co. cast 24 copper 1 crush — $3\frac{1}{2}$ lb cast. DT. Reopen right sweep — Sixteenth	1732	1112	1273	1295	1153	925 *	Co
	1733	1140	1265	1287	1157 *	870 *	
Ditto but 4 lb weight	1734	1102	1231	1261	1220	877 *	Co
	1735	1107	1237	1247	1090 *	...	
Ditto but 4½ "	1736	1085	1236	1277	1115 *	787 *	Co
	1737	1055	1248	1315	1133	845 *	896 Co
Ditto but 5 "	1738	1050	1235	1267	1262	1052 *	1850
	1739	992	1212	1273	1195 *	897 *	
Ditto except Nickel flasks 3 lbs	1740	962	1053	1045	1056	1000	
	1741	955	1061	1061	1068	1032	
Ditto Nickel flasks $3\frac{1}{2}$ lb	1742	1017	1085	1090	1093	1042	
	1743	962	1036	1062	1037	1035	
Ditto " 4 lbs	1744	998	1082	1050	1112	1087	
	1745	957	1037	1042	1066	1027	
Ditto " $4\frac{1}{2}$ lb	1746	908	987	1005	1037	1000	
	1747	912	985	990	997	975	

XX Reversed twice by mere tabs [illegible] each on 50th run

3/1949
99

XX Received twice by mistake on 50 Room

* spot but not broken thus also recorded
* " " best result.

		Cell	50 XX	100	150	200		
Dotts Nickel flasks 5 lbs	1748	880	962	950	957	962		
	1749	902	967	972	992	975		
Reg green – 10 Co fields Reg 24 grm	1750		893	940		177 *	Co	Nickel Very bad for Nickel
Dt 4 lb cut – odd lines –	1751		867	835		266 *		
250 Milg Sodicide Pot Ferrich cc Cc.	1752		895	635		240		
Dup 1750	1753		1196	1195	1142	942 *	Co	
Except two grams	1754		1192	1185	1162	987 *		
Chloride Potash Ferrich cc cell	1755		1198	1196	1183	1015 *		
Dup 1750	1756		600	600		385	Co	
Except 500 Milg Cyanide Potash	1757		898	945		660		
Ferrich cell –	1758		935	850		706		
004 stock Kompany 24 Cf 2400	1759	1061	1210	1255	1120	800 *	Co	
Lines off 10 Co fields 24 grm	1760	1087	1210	1270	1246	795 *		
Sing Pop 100 Dt – soak 10 hrs	1761	1037	1145	1205	1122	892 *		
3 lb cut								
Do 3½ lb cut	1762	1045	1153	1222	1202	570	Co	
	1763	1130	1245	1265	1277	1875		
	1764	1023	1167	1197	1220	962		
Do 4 lbs cut	1765	1072	1242	1250	1280	1012	Co	
	1766	1050	1266	1282	1272	655		
5 1768 grm	1767	1082	1205	1240	1202	925		
Do 4½ lb cut	1768	1087	1187	1200	1205	851	Co	
	1769	1083	1223	1237	1247	1297		
	1770	1023	1147	1127	1162	1050		
	1771							

XX 50th Reversed twice by numerals
chimney runs –

		Cal	50 XX	100		158	2 88	2 58
Do 5 lbs cut	1771	987	1132	1160		1180	1162	Co
	1772	905	1030	1056		1100	962	
	1773	938	1127	1137		1152 X	1140	
Do - 3 lbs cut 5 qts Nickel flake	1774	970	1040	1050		1086	1087	1082
	1775	1017	1150	1147		1175	1177	1165
	1776	987	1075	1068		1067	1091	1065
Do 3½ lbs Ni flake 6 qt	1777	955	1022	1017		1082 X	1068	1037
	1778	961	1050	1042		1057	1058	1050
	1779	943	1040	1046		1077	1087	1068
Do 4 lbs Ni flake 6 qt	1780	983	1085	1078		1110 X	1092	1070
	1781	960	1068	1060		1057	1066	1037
	1782	967	1087	1087		1092	1095	1098
Do 4½ lbs Ni flake 6 qt	1783	965	1045	1057		1047	1030	982
	1784	993	1131	1142		1155	1162	1135
	1785	965	1075	1072		1090	1100	1077
Do 5 lbs Ni flake 6 qts	1786	965	1060	1042		1070	1055	1030
	1787	902	1000	992		1005	1006	1000
	1788	927	1050	1045		1062	1062	1048
005 Block Ranger Zylet 240 a blow off - one corner 7 qtsm 10 Cafflake 2 qt green - 07 qtsm 3 lbs cut - 3 ave squares food 5 x 560 a 005	1789	950	1130	1160		1162	1172	1115
	1790	1030	1172	1200		1217	1153	922
	1791	950	1115	1158		1180 X	1083 X	827 X
Dup 1789 - 3½ lbs	1792	1000	1160	1196		1238	1245	1163
	1793	1035	1165	1157		1217	1227	922
	1794	1025	1200	1210		1222	1228	900
	~~1795~~							

1st Run X 1790 - Spl. 88 Spl. 58 Spl. 1791 "

X 1777 Spl. 6 qt
X 1773 - 5 lb. 6 qts Spl.
1791 "

XX Reversed twice during 50 ft Run by mistake -

Dup 1794 - Except 4 lb cut

= Ditto 4½ lb cut

= Ditto 5 lb cut -

out

out

	1000	XX 50ft	
1795		1156	1205
1796	1013	1173	1197
1797	935	1120	1140
1798	892	1071	1110
1799	900	1123	1132
1800	905	1112	1135
1801	895	1070	1100
1802	890	1050	1075
1803	847	1015	1076
1804			
1805			
1806			
1807			
1808			
1809			
1810			
1811			
1812			
1813			
1814			
1815			
1816			
1817			
1818			
1819			

1797 coming off -

150	200	250		
1232	1237			
1237	1241			
1167	1167			
1110 *	1133 ×	762 ×		
1135	1142	1143		
1136	1125	1112		
1117	1142			
1120	1143			
1107	1120			

X 005 stock 2400 Eylet used 005
hereafter —

		Cold	50	100	150	
Out	1820					
	1821					
	1822					
	1823					
	1824					
	1825					
	1826					
X	1827					
auto feed — 10 Co 24 Reg green 005 stock 2400 Eylet, DT 3½ lbs cut 4 grms Potassium Chloride	1828	1141	1135	1175	1075	
	1829	1137	1128	1130	985	
	1830	1105	1098	1040	656	
Dup — 2 grms KBr	1831	1162	1137	1150	1087	
	1832	1162	1138	1172	1100	
	1833	1150	1130	1150	1098	
Dup — 4 grms KBr	~~1834~~				~~[illegible]~~	
	1835	1145	1137	1007	790	
	1836	1162	1047	907	927	
	1837	1167	1130	1078	972	
Nickel flake — 3½ lbs stock feed — auto 10 rf 24 green Ann 20 2 grms KCl 2nd cycle	1838	1000	1000	997	966	
	1839	1002	1015	998	970	
	1840	983	995	992	975	
Nickel flake Dup of 1838 — 4 grms KCl 2nd cycle	1841	978	1038	1087	1060	
	1842	958	955	977	1000	
	1843	942	935	1007	1000	

		60	50	100		150	
Nickel flake	1844	940	915	925		925	
2 gms KBr	1845	955	940	957		957	
	1846	963	941	962		963	
Nickel flake	1847	1008	985	1010		990	
4 gms KBr	1848	1021	1010	1027		1012	
	1849	1035	1025	1030		1012	
Rag 3½ lb wet 10 Co 24 gms automatics side goes DT	1850	1173	1160	1085	Co	823	
4 gms NaBr	1851	1182	1155	1020		830	Co
	1852	1192	1168	1011		842	
Dup	1853	1163	1122	935			
4 gms NaCl	1854	1147	1160	1047			
	1855	1150	1175	1015			
Dup	1856	1150	1132	1142			
4 gms Na Acetate	1857	1142	1125	1150	Co		
	1858	1143	1137	1160			
Dup	1859	1135	1132	1142			
4 gms K Chlorate	1860	1127	1145	1173	Co		
	1861	1100	1082	1110			
Dup	1862	1087	1110	1117			
4 gms K Fluoride	1863	1067	1100	1100	Co		
	1864	1095	1107	1117			
Dup	1865	1137					
2 gms Caesium Chloride	1866	1125	Hollow drop				
	1867	1150					

		Cold	50	100
	1868			
	1869	Co		
	1870			
Dep	1871	1135		
2 grms Rubidium Chloride	1872	1087	Hot	
	1873	1120		
	1874			
	1875			
	1876			
	1877			
Dep	1878	970	862	475
8 grms KCl.	1879	920	917	597
	1880	942	1035	687
Dep	1881	940	Co	
12 grms KCl	1882	927	Co all	Cool above 140 very low
	1883	925	Co	after 140 very low 1092
Dep	1884	925		
16 grms KCl.	1885	907	Co	
	1886	927		
Dep	1887	917		
Saturated with KCl	1888	928	Co	
	1889	950		
Dep	1890	1120	1095	
2 grms Barium Chloride	1891	1130	1145	
	1892	1112	1127	

Cold 50

Dup 2 gms K Br	1893	1083	890	737	Co
2 " KCl	1894	582	1095	842	
2 " Na Cl					
2 " Na Br	1895	1060	1100	738	
Dup. 4 gms KCl	1896	1042	600		Co
	1897	1042	650		
2 " Ferrocy K	1898	1032	600		
Dup - 4 gms Na Sulphide -	1899	1027	997	1102	Co
	1900	1052	1057	1117	
	1901	1022	1012	1092	
Dup 2 gms KCl 2 " Na Sulphide	1902	1035	1077	1120	Co
	1903	1050	1102	1130	
	1904	1062	1112	1140	
Dup 5 gms Arsenate K	1905	1062	1007	875	Co
	1906	1030	987	850	
	1907	1037	1012	800	
Dup 5 gms K Arsenite	1908	1042	990	1027	Co
	1909	1042	912	981	
	1910	1037	925	1018	
Dup 5 gr Benzoate K	1911	1072	1025	1037	Co
	1912	1077	1040	1050	
	1913	1065	1017	1057	
Dup 5 gms Bifluoride K	1914	1087	992	1052	Co
	1915	1082	997	1065	
	1916	1090	1022	1056	

arsenicate is bad

		Cold	50	100		150
Dup 5 grms Bimoxalate K	1917	1062	1000	1007		
	1918	1047	980	1036	G	
	1919	1078	990	1017		
Dup 5 grms Bisulphite K	1920	1085	1050	1067		
	1921	1082	1100	1095	G	
	1922	1092	1132	1115		
Dup 5 grms Borax	1923	1097	1137	1097		
	1924	1095	1130	1107	G	
	1925	1080	1107	1128		
Dup 5 grms K Bromate.	1926	1045	992	1097		
	1927	1020	995	1060	G	
	1928	1030	1015	1050		
Dup 5 grms Formate Pot	1929	1035	932	—		
	1930	1048	947	792	G	
	1931	1050	965	812		
Dup 5 grms Hypophosphite Potash	1932	1020	865			
	1933	1035	865		G	
	1934	995	850			
Dup 5 grms Hypophosphite Potas Dup of 1933	1935	1082	1105			
	1936	1050	1046			
	1937	1012	1032			
Dup 5 grms Lactate Potash	1938	997	1061	1087		
	1939	962	1025	1080	G	
	1940	982	1050	1085		

Formate K seems to be bad

Hypophosphite K is bad

		Cold	50		
Dep 5 grms Nitrate Potash	1941	965	1022	1032	G
	1942	947	1002	1117	
	1943	1032	1005	1005	
Dep 5 grms Nitrite Potash	1944	933	982	1062	G
	1945	860	987	935	
	1946	932	1012	1146	
Dep 5 grms Orthophos Potash	1947	1018	1088	1122	G
	1948	1011	1082	1100	
	1949	1015	1057	1110	
5 grms Ethylsulfate Potash forms turbidity when put in ccc,	1950	985	1167		
	1951	945	1162		
	1952	990	1160		
5 grms Acetone Each ccc —	1953	965	970		
	1954	935	1000		
	1955	890	1022		
5 grms Silicofluoride K Each ccc	1956	1112	1147		
	1957	1115	1180		
	1958	1071	1155		
5 grms Monochloroacetate K Each ccc -	1959				
	1960				
	1961				
5 grms Rhodan Each ccc — X	1962	625	Sm was lost by		
	1963	555	Nick		
Would be true if ccc so put in Reg 21 Rhodan fluid	1964	645			

Changed to 1137 1100 1105

Co — N

		Cold	50	100		150	
5 grm Sulphoxsonate Soda Each cell	1965						
	1966						
	1967						
5 grm formaldehyde Each cell	1968	1012	1056		Co		
	1969	1000	1042				
	1970	1022	1072				
5 grm Sulfoxsonate K Each cell	1971						
	1972						
	1973						
	1974						
	1975						
	1976						
1st washing green	1977	1073					
	1978	1086					
	1979	1092					
Dup 1977 Except 2 washings	1980	1190					
	1981	1175					
	1982	1187					
No washing. Dried low heat. 256 g 4672 grm	1983	1200	1245	1290		1035	
	1984	1200	1245	1280		1160	Co
	1985	1197	1230	1276		950	
1/2 washing Dried low heat. 2.198 g 5.056 grm	1986	1112	1207	1270		995	
	1987	1087	1200	1276		892	Co
	1988	1137	1272	1305		966	

		Cold	50	100	150	200			
Green 1/2 wash Dried high heat 2.028 5.449 gram	1989	1045	1148	1257	1235	Co			
	1990	1132	1196	1330	500 spots				
	1991	1128	1208	1300	912 spots				
No washing dried high heat. 2.05 g 5.545 gram	1992	1155	1210	1268	862	Co			
	1993	1120	1163	1232	1083				
	1994	1137	1182	1265	1000 spots *				
Cobalt perox 6 g Brown 20 mark 10 x 24 - Reg 537	1995	71	Co						
	1996	67							
	1997	70							
Mn Peroxide CP mark 6 g Dry 9 x 0 19 G Reg - 5.27	1998	895	1100	868 spots		Co			
	1999	867	1096	873 spots					
	2000	865	1135	1082					
	2001								
	2002								
	2003								
Reg green 24 10 c/flake ods slock G rings on	2004	1117	1177	1282	1158				
	2005	1122	1235	1298	1162				
	2006	1100	1150	1257	1132				
5 gm Amyloleptate K Each cell —	2007	950	Co						
	2008	997							
	2009	950							
5 gm Amyloleptate K Each cell	2010								
	2011								
	2012								

			50	
5 grms Cinnamate K Each ccCC	2013	1097	1130	Co
	2014	1107	1127	
	2015	1105	1151	
5 grms Croconate K Each ccCC	2016			
	2017			
	2018			
5 grms Cyanate Pot'sh E ccCC —	2019	600	Iron was badly hurt Ni OK	Co
	2020	763		
	2021	762		
5 grms Cyanurate Pot'sh Each ccCC	2022	1070	717	Co
	2023	1100	767	
	2024	1070	700	
5 grms Iodate Pot'sh Each ccCC -	2025	737	Nickel was badly hurt Iron OK	Co
	2026	730		
	2027	715		
5 grms Nitrobenzoate K Each ccCC -	2028	600	Iron was badly hurt Ni OK —	Co
	2029	550		
	2030	650		
5 grms Oxamide -	2031	Co		
	2032			
	2033			
5 grms Acetamide Decomposes	2034	907		Co
	2035	750		
	2036	832		

Cyanate K bad for Iron

Iodate K bad for Nickel

Nitrobenzoate K bad for Iron

Acetamide bad

		Cal	50	100
5 grms Flour Sulphur Each ccc	2037	635		Co
	2038	630		
	2039	637		
5 grms Permanganate Potash Each ccc	2040			
	2041			
	2042			
5 grms Picrate Potash Each ccc	2043		Co	
	2044			
	2045			
5 grms Phosphate Potash Each ccc	2046			
	2047			
	2048			
5 grms Selenate Potash Each ccc	2049	1100	1000	Co
	2050	1108	850	
	2051	1120	990	
5 grms Sulphite Potash Each ccc	2052			
	2053			
	2054			
5 grms Meta Stannic Potash Each ccc	2055	1115	1185	Co
	2056	1116	1167	
	2057	1117	1168	
5 grms Sulfarsenate K Each ccc	2058	975	1095	Co
	2059	1012	1150	
	2060	1035	1132	

Sulphur mixtures bad for trans

5 grms Succinate Potash	2061	1043	1120
	2062	1032	1123
	2063	1060	1135
5 grms Tellurate Potash	2064	1155	987
	2065	1165	827
	2066	1166	1017
5 grms Xanthate Potash	2067		
	2068		
	2069		
5 grms Thiacetate Potash	2070		
	2071		
	2072		
5 grms Methonide Potash	2073		
	2074		
	2075		
5 grms Sulfocyanide Potash	2076		
	2077		
	2078		
5 grms Sulformolybdate K	2079		
	2080		
	2081		
5 grms Sulfortungstate K	2082		
	2083		
	2084		

Changed KOH before it moved from ~~[illegible]~~ 270

		Cold	50	100	
5 grms Hard rubber shavings Each cell –	2085	1125	1175	1211	
	2086	1148	1187	1247	
	2087	1005	1168	1232	
5 grms Stearic acid Each cell –	2088	1015			
	2089	830			
	2090	932			
5 grms Magnesium Powder Each cell	2091	1102		1163	
	2092	1105	5	1167	Co
	2093	1102		1155	
5 grms Cadmium powder Each cell	2094	1100	1137	Co	
	2095	1108	1161		
	2096	1102	1150		
5 grms Powdered Lead Each cell	2097	1112	1145		
	2098	1115	1140	Co	
	2099	1170	1142		
5 grms Powdered Antimony Each cell	2100				
	2101				
	2102				
5 grms Powdered Bismuth Each cell	2103				
	2104				
	2105				
5 grms Powdered Ferromanganese	2106				
	2107				
	2108				

Best way they threw it out after 50 Runs?

		Cold	50	100		150	200
5 grms Powdered Tin Each cell	2109	1211					
	2110	1185					
	2111	1165					
2 grms paper in 1/8" pieces — Each cell —	2112	1137	1181	1200			
	2113	1131	1167	1207			
	2114	1133	1185	1228			
5 grms Carb Pot Each Each cell	2115						
	2116						
	2117						
4 Washings in Percolator	2118	1087	1125	1152		1193	
	2119	1123	1145	1150		1212	
	2120	1142	1170	1182		1218	
5 Washings in Percolator	2121	1125	1147	1170		1205	
	2122	1130	1146	1162		1195	
	2123	1155	1175	1188		1163	
4 grms Perchlorate Sodium Each cell	2124						
	2125						
	2126						
Dup 1804 Except 2 grms Caustic Sodium Each cell	2127						
	2128						
	2129						
Dup 1804 Except 4 grms NaOH	2130						
	2131						
	2132						

Heat reg. Thermometer at end after 50 Mins.

		Cold	50	100	150	200	250	300
Dup 1804 Except 8 gms NaOH,	2133							
	2134							
	2135							
Dup 1804 4.67 Except 2 gms LiOH Each ccCC	2136	1145	1196	1267				
	2137	1151	1202	1275				
	2138	1137	1192	1305				
4 gms Caustic Lithia Each ccCC 4.63 with Reg 21% —	2139	1132	1160	1300				
	2140	1125	1171	1291				
	2141	1122	1135	1286				
8 gms Caustic Lithia Each ccCC. with the 21% KOH, 4.70	2142	1050	1010	960				
	2143	1055	1015	1195				
	2144	1060	1020	1085				
23% KOH, 29%	2145	1170	1222	1182				
	2146	1167	1210	1175				
	2147	1170	1217	1137				
25% KOH, 31%	2148	1197	1217	1107				
	2149	1200	1200	1215				
	2150	1170	1150	1082				
27% KOH, 33%	2151	1225	1145	937				
	2152	1227	1199	920				
	2153	1140	960	787				
29% KOH, 35%	2154	1277	1052	705				
	2155	1262	1085	745				
	2156	1250	1197	910				
21% Not exactly enough	2157							

		Cold	50	100	
19% KOH, 25% 100 mm	2157	1092	1132	1093	
	2158	1082	1125	1040	
	2159	1075	1147	1012	
17% KOH, 23% 100 mm	2160	845	850	762	
	2161	810	842	583	
	2162	1030	1087	1080	
15% KOH, 21% 100 mm	2163	992	1050	1062	
	2164	1010	1060	1057	Co
	2165	1005	1057	1055	
13% KOH, 19% 100 mm	2166	940	1000	947	
	2167	940	1000	903	
	2168	944	997	1012	
11% KOH, 17% 100 mm	2169	920	980	987	
	2170	920	995	977	
	2171	912	987	988	
9% KOH, 15% 100 mm	2172	875	950		
	2173	875	1007		Co
	2174	837	932		
2 grams Lithium Chloride Each cccc –	2175	1151	1222		
	2176	1125	1176		Co
	2177	1147	1217		
4 grams Chloride Lithium Each cccc –	2178	1075	1193		
	2179	1067	1092		Co
	2180	1100	1207		
	2181				

*Bent broken up –

				100	150	200			
8 grms Chloride Lithium Each cell —	2181	1017*	1102						
	2182	1000	1067	Co					
	2183	1030	1097						
3 washings in Potassium Co —	2184	1083	1160	1212					
	2185	1147	1165	1200					
	2186	1160	1212	1232			250	300	
2 grms Sulphate Sodium Each cell —	2187	1102	1137		1147		800		
	2188	1087	1120		1142		807		
	2189	1107	1130		1145		722		
4 grms Sulphate Soda Each cell —	2190	1112	1127		1142	1021	735	682	
	2191	1115	1126		1142	961	802	717	
	2192	1105	1127		1146	1060	720	700	
2 grms Nitrate Soda Each cell	2193								
	2194								
	2195								
4 grms Nitrate Soda Each cell	2196								
	2197								
	2198								
8 grms Nitrate Soda Each cell —	2199								
	2200								
	2201								
Top of pocket loose —	2202		990	1005					
2d cell measure	2203		1017	1032					
Expansion & also	2204		1027	1070					
2d of 8 grms more bent, 1/64th —									

				100		150	
6 washings in Percolator	2205	1081	1145	1157			
	2206	1096	1150	1170			
	2207	1102	1168	1167			
Reg green 7 washings Percolator	2208	1066	1155	1212		845	
	2209	1088	1150	1228		1030	
	2210	1118	1171	1197		892	
Ditto 8 washings	2211	1103	1167	1206		982	
	2212	1108	1167	1053		897	
	2213	1112	1177	1200		920	
Reg green washed but dried at very low heat 10 coff 24 green [illegible]	2214						
	2215						
	2216						
No wash air dried washed free NaOH. Dried on heater 200 Fah 4.320	2217	1066	1145				
	2218	1080	1135				
	2219	1052	1115				
1/2 wash air dried washed free of NaOH, heated on heater 200 Fah 4.320	2220	1047	1128				
	2221	1075	1160				
	2222	1048	1142				
Ra 662 - 91% $Ni(OH)_2$ 9% Bi_2O_3 this 20 - 10 Coff 4.34	2223	987					
	2224	956					
	2225	1027					
Ra Ni OH 90% $Co_2(OH)_6$ 10% 5.41 this 20 - 10 Coff	2226	971					
	2227	986					
	2228	1013					
Ra - 90% Ni OH 10% Bi_2O_3 mixed together on pottery 10 Co 24 green 4.92	2229	1147					
	2230	1130					
	2231	1147					

		m27	
	2231		
90% MoH Bi_2O_3 ? ? 4.02	2232	970	
washing [illegible] $MiSO_4$ + Not Bi by Roth, [illegible] — Not wood [illegible]	2233	897	
	2234	970	
Ra 718 Thru 20 no wash air dried washed w/ wind Reg pk – to already fumes [illegible] 20 m 4.77	2235	1183	
	2236	1207	
	2237	1200	
Ra 719 – No wash air dry – washed + air dried – to already fumes [illegible] 20 m – 4.67	2238	1152	
	2239	1172	
	2240	1133	
Ra 745 – No wash – not filtered air Dried dried low heat, percolated. 4.67	2241	1121	
	2242	1121	
	2243	1110	
Ra 752 no wash dried low heat Cobalt free · 5.28	2244	1047	
	2245	1063	
	2246	1073	
Ra 744 – no wash filtered air Dried low heat percolated 4.80	2247	1212	
	2248	1187	
	2249	1205	
Ra 765 – 10 x 24 Coffeeb Jug 9 [illegible] DT 005 burn off Bypass Reg pk Rglcd. Very sticky in Mechanic – 6.44	2250	682	
	2251	682	
	2252	650	
Ra 767 10 x 24 Coffeeb Reg 9 [illegible] 005 burn off Rglcd. 4.90	2253	1197	
	2254	1212	
	2255		
	2256	m27	

R		27	50	100
Ra 768 Dup 2253 Spring 1/64 — 4.70	2255	1165		
	2256	1197		
Ra 769 - Dup 2253 Spring 1/64 - 5.25	2257	1175		
	2258	1208		
Ra 770 - Dup 2253.	2259	1207		
	2260	1230		
Ra 771 Dup of 2253 4.92	2261	1177		
	2262	1170		
Ra 772 Dup of 2253 4.82	2263	1235		
	2264	1182		
Ra 758 - Dup of 2253 Stop in Hyd — 7.28	2265			
	2266			
Ra 766 - Dup of 2253	2267	1175		
	2268	1200		
4.69	2269	1180		
Ra 774 Dup of ~~Dup of 2253~~	2270		1138	1152
Low heat no wash	2271		1158	1235
Dup of 2253 5.25	2272		1210	1201
Ra 763 - ~~Hydro~~ Hydro no wash Extend drying time least Recommend - Dup of 2253 4.53 Stop in Hydro	2273	0		
	2274			
Ra 790 -	2275		1213	935 5
5.36	2276		1187	890
	2277		1226	910 56
Ra 776 -	2278		1100	858
	2279		1117	985
4.38	2280		1150	950

		Cold	52	
RQ 711A — 4.31	2281		1101	
	2282		1125	
	2283		1120	
RQ 791 - Not made	2284			
	2285			
Stroke with oppo flow flow.	2286			
RQ 775 Ni Export No grade Dried low heat - not following - Not made	2287			
	2288			
Stroke with oppo flow	2289			
RQ 749 — 4.17	2290		717	Co
	2291		720	
RQ 750 - 4.23	2292		910	Co
	2293		937	
RQ 751 - 4.02	2294			
	2295			
RQ 748 - No work on Dried not following 4.25	2296			
	2297			
RQ 788 — 5.04	2298			
	2299			
10 x 24 Cof reg ni - 3½ wt 5 drop Red grade 000 bowl 5 gl R fyld 12 hrs - New OP Coarsely Chg 1 hr on hot Reset 8 hours chg 8 dis — 4.19	2300	1173		
	2301	1185		
	2302	1192		
	2303	1250		
	2304	1192		
	2305	1190		

All times hereafter
Chg 8 hours due 8 hours

Dup of 2300 Except new wom is to be run previous Cu Hy now Run Cold 4.48	2306	1190		
	2307	1150		
	2308	1200		
Dup of 2306 - Cu Hy 8 min Run that 8 chg 8 chi 4.69	2309	1170		
	2310	1210		
	2311	1207		
Dup 2306 - Cu Hy min Run hot reversed once work 4.72	2312	1197		
	2313	1143		
	2314	1130		
Dup of 2300 - Rey min 4.80 Except Co flake 9 parts 1 pt Ni flake total 10 pt	2315	1145		
	2316	1188	Co	
	2317	1191		
Dup 2315 4.80 Except 8 Co flake 2 Ni flake 24 grm 4.90	2318	1150		
	2319	1135	Co	
	2320	1155		
Dup 2315 4.70 Except 7 Co flake 3 Ni flake	2321	1112		
	2322	1140	Co	
	2323	1127		
Dup 2315 4.83 Except 6 Co flake 4 Ni flake	2324	1172		
	2325	1172	Co	
	2326	1165		
Dup 2315 4.90 Except 5 Co flake 5 Ni flake	2327	1146		
	2328	1132	Co	
	2329	1147		

Dup 2315 4.90 Except 4 Coffeeb 6 Niflatta	2330	1135	Co
	2331	1132	
	2332	1125	
	2333	520	
	2334	547	Co
	2335	550	
	2336	522	
	2337	538	
green thro 30 mesh fuse pattern 24 x 10 Coffeeb Reg dop. reg nuc R light 24 x 6 burn green 4.43	2338	1182	
	2339	1210	
	2340	1186	
Dup 2338 4.31 Except green thro 40 fuse in ~~4.22~~	2341	1182	
	2342	1182	
	2343	1182	
Dup 2338 Except green thro 50 fuse in 4.22	2344	1183	
	2345	1158	
	2346	1140	
Dup 2338 4.40 Except green thro 60 fuse in	2347	1215	
	2348	1180	
	2349	1215	
Dup 2338 4.56. Except green thro 100 fuse in	2350	1097	
	2351	1097	
	2352	1112	
	2353		

	2353
	2354
	2355
	2356
	2357
	2358
	2359
	2360
	2361
Reg Water 2400 - 10 Co 24 g Reg fill to 600 mm in 18% KOH. 3% K_2CO_3	2362
	2363
	2364
Dup 2362 Except 16 KOH 5% K_2CO_3	2365
	2366
	2367
Dup 2362 Except 13% KOH. 8% K_2CO_3	2368
	2369
	2370
Reg 2400 Reg Equilibrium Except 6 Runs	2371
	2372
	2373
Dup 2371 Except 8 Runs	2374
	2375
	2376

	2377	
	2378	
	2379	
Reg 2400 005 tube Reg tix+pk 6 rings run in 21% with 10# 9mm KCl-	2380	
	2381	
	2382	
Dup 2380 Except 8 rings - 10 9mm KCl.	2383	
	2384	
	2385	
	2386	
	2387	
	2388	
	2389	
	2390	
	2391	
	2392	
	2393	
	2394	
21 Holes [illegible] 005 - 4 rings - 10 Cu 24 7 - Reg pk -	2395	1085
	2396	1067
	2397	1065
Dup 2395 but 0035 Stock 1	2398	1085
	2399	1057
	2400	1086

Dup of 2395 run in 21% KOH centering 10 grm KCl each cell 4 groups	2401	1035
	2402	1050
	2403	1016
Dup 2398 Except run — 21% Centering 10 grm KCl each cell	2404	1103
	2405	1041
	2406	1105
2400 Reports stock — 3 lb wt.	2407	
	2408	
	2409	
Nickelflake Reg Thickness 24 grm 10 ml 3½ wt. 2400 not 005 4 group hand ground Reg prick	2410	908
	2411	912
	2412	915
ditto	2413	933
	2414	895
	2415	920
Nickelflake - same as 2410 But run in 21% Centering 10 grm KCl each cell	2416	912
	2417	915
	2418	932
Nickel - 8 parts Co flake 2 parts mixed 24 grm — 005 2400 3½ lb 4 group 10 grm KCl each cell	2419	990
	2420	1030
	2421	1100
Dup Except Nickelflake 7 parts Co flake 3 pts 10 grm KCl each cell	2422	1007
	2423	1063
	2424	1077

After 5 Runs Cat 2 or 3 runs in at this Cobalt group is best showing 21 Stock strangest 005 ?

Cobalt ditto The best group not such a curious as its Number stock 003 ?

This is Hand Grat, of 2401 2404 groups

Nickel -

6 pts Ni flake 4 pts Co flake - 10 grms KCl each cell	2425	1107	
	2426	1077	
	2427	1097	
5 Ni 5 Co flake 10 grms KCl each cell	2428	1100	
	2429	1025	
	2430	1155	
10 Ni flake 24 grs Rogers 21 hole screen .005 4 rings 3% wt.	2431	903	
	2432	907	
	2433	917	
Dup 2431 except 5 Co flake 5 Ni flake + 24 grs Rum reg 4 rings .005 21 hole screen stock	2434	1042	
	2435	1028	
	2436	1040	
Dup 2434 except 7 Ni 3 Co flake 24 gr .005 21 hole screen stock 4 rings	2437	992	
	2438	992	
	2439	1000	
Dup except 8 Ni 2 Co flake .005 21 hole screen stock.	2440	958	
	2441	952	
	2442	945	
XXX smelting wrong 10 Co flake tough from Ilmenite Oregon window Dried in Cat. furn.	2443	800 X	Cause of resolution.
	2444	537 X	
	2445	800 X	
	2446		
	2447		
	2448		

24			
2400 005 5th 4 rings -	2449	1150	
10 Co 24 g 3% wt rdg	2450	1155	
pk Run 21% 100 milg			
Li OH Each cell -	2451	1172	
Dup except	2452	1167	
250 milg Li OH Each cell	2453	1157	
	2454	1161	
Dup except 500 milg.	2455	1207	
Li OH Each cell	2456	1137	
	2457	1132	
Dup Except 1 gm	2458	1200	
Li OH Each cell.	2459	1212	
	2460	1160	
Dup except 1 1/2	2461	1170	
gm Li OH Each cell	2462	1162	
	2463	1200	
~~[illegible]~~ 21 Hole	2464	1132	
Clock 005 - 4 rings	2465	1127	
1 gm Li OH Each cell	2466	1152	
Dup 2464	2467	1095	
Except 2 gms Li OH.	2468	1142	
	2469	1142	
21 Hole clock. 10 Nickel plate	2470	892	
4 rings - 24 g rdg pk	2471	890	
005 - 2 gms Li OH.			
	2472	892	

Dup 2470 Wafer Except Cell filled with 15% KOH = 2 grms LiOH. Each cell —	2473	865
	2474	850
	2475	845
Dup 2464 Wafer Except 15% KOH. 2 grms LiOH each cell	2476	992
	2477	1017
	2478	1008
Reg 2400 hole 005 — Cell is from 24 15% NaOH, 2 grms LiOH. Each cell	2479	1125
	2480	1122
	2481	1140
	2482	
	2483	
	2484	
	2485	
	2486	
	2487	
2400 hole 005 ni flake 0001 ~~[illegible]~~ not thick 9 flake 24 grams Spiral 4.37 Reg grams	2488	
	2489	
	2490	
Dup 2488 except Spiral 8 ni flake - 24 grams 4.25	2491	
	2492	
	2493	
Dup 2488 except 7 ni flake - Spiral 4.22	2494	
	2495	
	2496	

Drop 2498 which [illegible]	2497		
Except 6 7ri female	2498		
24 for spread 21 hole			
005 4.13	2499		

Duplicate from 27% franco-

		A			
23% KOH.	A	2145	1140		
	"	2146	1130		
		2147	1132	average 1134	
25% KOH.		2148	1137		
		2149	1177		31
		2150	1182	average 1165	
27% KOH. Co 10.24.		2151	1225		
		2152	1215		83
		2153	1210	average 1217	
29% KOH.		2154	1232		
		2155	1238		102
		2156	1237	average 1236	
19% KOH		2157	1077		
		2158	1082		
		2159	1087	" 1080	
17% KOH.		2160	1035		
		2161	1041		
		2162	1022	" 1032	
15% KOH.		2163	1005		
		2164	972		
		2165	967	" 981	
13% NOH.		2166	932		
		2167	940		
		2168	942	938	

3)3496
1165

3)3651
1217

3)3402
1134

3)3708
1236

3)2944
981

3)2944
981

3)3246
1082

3)3095
1032

3)2814
938

3)2814
938

		A		
11% KOH,	A	2169	896	
		2170	882	
		2171	880	average 886
9% KOH,		2172	855	
		2173	840	
		2174	852	" 849
	A	2333	510	
5 Reg pockets Reg mix -		2334	513	
		2335	502	
		2336	503	
		2337	512	
9 Co 1 ni flake	A	2315	1097	
		2316	1082	
		2317	1100	
8 Co 2 ni		2318	1080	
		2319	1067	
		2320	1073	
7 Co 3 ni flake		2321	1082	
		2322	1075	
		2323	1084	
6 Co 4 ni "		2324	1070	
		2325	1060	
		2326	1053	
5 Co 5 ni "		2327	1030	
		2328	1025	
		2329	1027	

3 | 2658
886

3 | 2547
849

4 Co 6 Ni flake	A	2330	1030
		2331	1017
		2332	1010
No wash Dried Low heat	A	1983	1165
		1984	1167
		1985	1172
1/2 wash Dried Low heat	A	1986	1200
		1987	1192
		1988	1160
1/2 wash Dried High heat	A	1989	1107
		1990	1135
		1991	1125
No wash Dried high heat	A	1992	1212
		1993	1197
		1994	1182

0001 M (not H) 10 M 24 hr. green wood in 1983 — 1/2 wash dried low heat. 26430-005- 4.97	5000	1001	
	5001	1075	
	5002	1068	
Dup 5000 green wood in 1986 1/2 wash Dried low heat. 4.92	5003	1082	
	5004	1070	
	5005	1083	
Dup of 5000 green of 1987 1/2 wash Dried high heat 5.39	5006	1092	
	5007	1030	
	5008	1097	
Dup 5000 except green wood of 1992 No wash Dried high heat 5.34	5009	1093	
	5010	1105	
	5011	1111	
Dup 5000 bid with green one wash peroxide. 5.52	5012	1056	
	5013	1035	
	5014	1083	
~~Dup 5000~~ 2 washing powder	5015	1015	
	5016	1022	
	5017	1057	
Dup 5000 4 washing powder	5018	988	
	5019	992	
	5020	1080	
Dup 5000 8 washing powder	5021	993	
	5022	1018	
	5023	1014	

Dup 5000	5024	982	
Greenhorne no RA	5025	967	
by 52 w/ No 2244			
	5026		
Dup 5000	5027	975	
Except RA 744	5028	980	
Same w used No 2247	5029	978	
Reg Mi ff 0001 - Nothline H.	5030	981	
obs - 26X30 New process	5031	972	
by Cu mine - Fe 5 ppm	5032	956	
New process Cutting from	5033	960	
Dup of 5030	5034	980	
	5035	973	
Dup of 5030.	5036	962	
New process from Cutting	5037	952	
Received hot one week	5038	962	
by comp.			
M 0001 Nothline H	5039	1142	
26X30 - 3 5/2 4	5040	1120	
005 - Run - 33%	5041	1106	
31% KOH	5042	1092	
	5043	1085	
	5044	1118	
	5045	1072	
29% KOH	5046	1077	
	5047	1081	

7%	~~5047~~	
27% KOH,	5048	1031
	5049	1031
	5050	1036
25% KOH	5051	1010
	5052	1012
	5053	1015
23% KOH	5054	990
	5055	986
	5056	961
21% KOH,	5057	982
	5058	982
	5059	950
19% KOH,	5060	957
	5061	950
	5062	943
17%	5063	922
	5064	938
	5065	907
15% KOH	5066	900
	5067	891
13% KOH,	5068	866
	5069	872
	5070	870

11% KOH.	5071	835
	5072	830
	5073	820
9% KOH.	5074	745
	5075	755
	5076	758
Ra 900% of 10% Bi_2O_3 Dup of 2229 –	5077	872
	5078	877
	5079	876
Ra [illegible]	5080	
[illegible]	5081	
[illegible]	5082	
	5083	
	5084	
	5085	
	5086	
	5087	
	5088	
	5089	
	5090	
	5091	
	5092	
	5093	
	5094	

All Nickel flake

	5095	
	5096	
	5097	
	5098	
	5099	
Ni flake without Cut 30/1000	5100	
5½ lbs thru 20 plate 24 ft	5101	
2½ lbs 26X30 hole .005		
4 trips turn around	5102	
Ditto 20/1000 wide	5103	
	5104	
	5105	
Dup of 5100 Except	5106	
21 Hole stock .005	5107	
	5108	
Dup 5103 Except use	5109	
21 Hole stock .005	5110	
	5111	
Ni flake ½ Thick without H	5112	955
26X30 holes .005 turn off	5113	986
Rep pack 10 of 24 prem 3½		
4.24	5114	997
Dup of 5112	5115	1005
Except 9 Ni flake 24 ft	5116	1001
4.27	5117	1000
	5118	

Cod 50

Dup of 5112 Except 8 Nuflakes ½ thick 24 green 4.47	5118	998
	5119	986
	5120	996
Dup of 5112 Except 7 Nuflakes ½ thick 24 green - 4.60	5121	997
	5122	1002
	5123	1005
Dup 5112 Except 6 Nuflakes ½ thick 24 g/ - 4.81	5124	1020
	5125	1002
	5126	1006
Dup 5112 Except 5 Nuflakes ½ thick 24 green 4.93	5127	987
	5128	987
	5129	996
Dup 5112 Except 4 Nuflakes ½ thick 24 g/ 5.07	5130	1007
	5131	982
	5132	985
Dup 5112 Except 3 Nuflakes ½ thick 24 g/ - 5.09	5133	1002
	5134	1000
	5135	995
Nuflakes reg 000 which had been [illegible] Rings were dull rated nuflat thru 20 26/30 hole 10/29/9 000 4 Rings Reg p-ok	5136	911
	5137	900
	5138	912
Dup 5136 Except 5 Rings	5139	920
	5140	925
	5141	923
	5142	

Dup 5136	5142	900
Except 6 Rings	5143	918
	5144	915
Rep 0001 Nifleb not thio A.	5145	930
3 lbs cot 26x30 holes	5146	940
005 burr off - Rep pack 4 rings	5147	940
Dup 5145	5148	922
Except 5 Rings	5149	922
	5150	931
Dup 5145	5151	960
Except 4 lbs cot	5152	977
4 rings	5153	990
Dup 5145	5154	972
Except 4½ lbs cot	5155	987
4 rings	5156	957
Nifleb 0001 not thio A.	5157	900
21 Hole 4 lbs cot	5158	892
4 rings	5159	881
Dup 5157	5160	900
Except 5 Rings	5161	900
	5162	915
21 Hole 005 Cobleb CO	5163	991
10 of 24 g — one ring	5164	1012
opp — 4 rings		
COBALT Flake	5165	1007
Dup 5163	5166	1050
Run 10 grm RCP —	5167	1027

Cut up

21 Holes .005 - 1/2 lim R-19-10C₂ 24 g	5168 5169 5170	937 970 917
26X30 .005 3 1/2 Elliot 10 mg .0001 not Hi 24 g Plang pk Rum 33% NaOH	5171 5172 5173	
31% NaOH	5174 5175 5176	
29% NaOH	5177 5178 5179	
27% NaOH	5180 5181 5182	
25% NaOH	5183 5184 5185	
23% NaOH	5186 5187 5188	
21% NaOH	5189 5190 5191	

19% NaOH	5192	
	5193	
	5194	
17% NaOH	5195	
	5196	
	5197	
15% NaOH	5198	
	5199	
	5200	
13% NaOH	5201	
	5202	
	5203	
11% NaOH	5204	
	5205	
	5206	
9% NaOH	5207	
	5208	
	5209	
7% NaOH	5210	
	5211	
	5212	
2400 - 005 Rogers Zylit	5213	
bamboo pound 4 trays	5214	
10 Nb 0001 not #.	5215	
33 Rg 0006		

see Last page	5216
	5217
	5218
	5219
	5220
	5221
Dup 5213	5222
Except 5 Rings -	5223
	5224
	5225
	5226
	5227
	5228
	5229
	5230
2400 005 Burrs	5231
Not ground off	5232
10 ni f 001 - 3½ lb Rot	5233
4 Rings - 24 g	5234
Reg pk flake Rot H	5235
	5236
	5237
	5238
	5239

Dup 5321	5240
Except 5 Rings	5241
	5242
	5243
	5244
	5245
	5246
	5247
	5248
Stock 26X30 005	5249
burnoff 3 1/3 lbs wt	5250
4 Rings Reg grade	5251
Nifflbond Not	5252
H, 24 reg grow	5253
	5254
	5255
	5256
	5257
Dup 5249	5258
	5259
Except 5 Rings	5260
	5261
	5262
	5263

		Calcd
See last page	5264	
	5265	
	5266	
Stock 21 holes narrow	5267	
005 – bars off –	5268	
3 1/2 lb tot. 47 rings	5269	
Reg ok flake coal	5270	
Not tl, 124 gr	5271	
	5272	
	5273	
	5274	
	5275	
Drop 5267	5276	
Except 5 Rings –	5277	
	5278	
	5279	
	5280	
	5281	
	5282	
	5283	
	5284	
Stock big punched holes	5285	
005 – 1d in 1 of 0001	5286	
Not H – Reg ok	5287	
3 1/2 wt 24 grain		
Reg		

	5288
	5289
	5290
see Last page	5291
	5292
	5293
Drop 5285	5294
	5295
Except 5 Rings	5296
	5297
	5298
	5299
	5300
	5301
	5302
2400 burn ground off 4 ring SPIRAL	5303
	5304
Full turn, 3½ lb	5305
Mi f 0001 – Reg	5306
pk – 24 Reg gun	5307
	5308
	5309
	5310
	5311

Dup 5303	5312	
Except 26 X30	5313	
Spiral one	5314	
Complete turn	5315	
4 Rings —	5316	
	5317	
	5318	
	5319	
	5320	
21 Hole clock 005	5321	
Muffle nat H, 10 ft ½	5322	
24 green neg proc	5323	
10 KCP		
Dup 5321	5324	
except punch hole	5325	
clock		
10 gm KCP	5326	
Punch hole clock	5327	
SPIRAL, one complete turn	5328	
Rings f .0001 nat H —		
24 g rep pr 10 gr KCP	5329	
Punch hole clock 005	5330	
SPIRAL — one complete turn		
Rings f .0001 — nat H.	5331	
10 f 24 Neg green 2½		
	5332	
	5333	
	5334	

	5335
	5336
	5337
Dup 5329 1/2 Except run 33% KOH	5338
	5339
	5340
Dup 5329 1/2 Except no flake cut except 60/1000 wide line much	5341
	5342
	5343
Same as 5341 - Except 21 hole slide - SPIRAL -	5344
	5345
	5346
21 Hole slide 005" SPIRAL - one Complete turn 3 1/2 10 Mil flake 24 gr Reg finish 21 1/6	5347
	5348
	5349
	5350
	5351
	5352
	5353
	5354
	5355
21 Hole 005" 10 mil 0001 not H- 1/2 66 not Reg ph 24 green run in 33% KOH.	5356
	5357
	5358

31% KOH	5359	
	5360	
	5361	
29% KOH	5362	
	5363	
	5364	
27% KOH,	5365	
	5366	
	5367	
25% KOH	5368	
	5369	
	5370	
23% KOH	5371	
	5372	
	5373	
21% KOH	5374	
	5375	
	5376	
19% KOH	5377	
	5378	
	5379	
17% KOH	5380	
	5381	
	5382	

15% KOH	5383
	5384
	5385
13% KOH.	5386
	5387
	5388
11% KOH	5389
	5390
	5391
9% KOH	5392
	5393
	5394
7% KOH	5395
	5396
	5397
21 Hoff stock .005" Ni foil .0001 Not H. Reg gock 10 flake 24 gr. 25 Chlor 21% KOH 4 Rings Fe Gauze 5 Rings and then given to Holland for Sonnenglühe	5398
	5399
	5400
Dup of 5398 except 21 hole spread later 4 rings. after 5 rings goes to Holland	5401
	5402
	5403
26 X 30 Stock .005" Ni flake .0001 Not Flow H. 10 flake 24 gr Reg gock 4 rings 5 Rings then goes to Holland	5404
	5405
	5406

Dup 5404	5407
Except Spiral Lubes	5408
5 Runs by Hoogen then given to Holland	5409
Punched holes stock .005 in plate to .0001 not H — 24 triple ray punch 3½ lb but 21½ lb off 4 Runs 5 Runs by H then given to Holland	5410 5411 5412
Dup of 5410 —	5413
Except Spiral Lubes	5414
5 Runs given to Holland	5415
2400 stock .005 to .0001 not H, 24 green ray punch 4 Runs by Hoogen & Holland	5416 5417 5418
Dup of 5416	5419
Except Spiral Lubes	5420
given to H then after 5 Runs	5421

Note after Feby 5 — all old & new lubes goon 6½ hours at 200 or 5½ h dendy at 180 then given 2 runs, Dandy solution changed twice during run & at end.

231 = 10% KOH 10% K_2CO_3 changed here to 30% KOH.
232
233

234 Run cold to here then put on heat
235 "
236 "

273 Blows inside (untried).
282 " 2nd "

306 – Had K_2S to here, changed. Put fresh KOH on here.

	Cold	50	100	150	200	250	300	350
2	779	747	637	761	725	667	736	779
3	712	682	312	692	732	712	745	740
4	651	665	667	760	740	725	775	717
6	656	622	630	657	645	605	668	620
8	717	735	725	710	665	660	670	615
12	850	806	871	882	875	850	826	753
24	735	767	796	770	803	757	710	665
83	772	822	800	842	757	700	650	550
154	890	927	837	885	852	758	686	630
160	885	865	866	925	937	787	730	687
215	786	777	862	855	873	715	687	676
231	762	657	727	560	487	795	758	742
232	615	630	671	537	438	760	725	692
233	592	722	770	710	607	817	777	730
234	790	811	825	830	875	887	897	852
235	744	792	815	810	831	835	757	635
236	763	830	857	850	853	847	772	668
273	905	957	965	967	943	917	882	867
282	925	972	987	1010	1007	947	858	745
287	938	976	971	975	910	800	732	632
288	971	972	947	927	832	703	590	540
306	793	830	800	530	87	933	858	785

Split 3/4 way down

400	450	500	550	600	650	700	750
712	683	572	447	415	475	395	
726	722	652	600	585	542	532	
658	648	632	587	560	540	530	
582	577	549	510	483	482	476	
572	520	482	426	400	407	402	
635	571	455	512	522	502	475	
602	547	500	500	482			
490	485	492	437				371
600	590	530	547				485
638	597	596	565				312
647	600					460	525
				563			
				502			
				570			
385	785	7				650	1632
312	502					392	449
550	527					423	455
575				657	600		396
775				500	577		
70				415	475		
500				375	425		
762				577	595		

Run

800	850	927	977	1027	1077	1127
	347	335	325	306	242	232
	487	475	445	457	432	360
	472	452	437	415	397	360
	435	412	395	375	375	365
	415	420	420	416	397	400
	405	433	435	426		400
427	401		356			356
450						
482						
420						
	577					
	610					

10 3 spld bills at bottom

Hour run [illegible] 1 hour

Record of alloys that were under electrolysis in room 11 for 2 yrs record now in one of the old books —

24 —	3.21	Bright perfect —
25	3.21	attacked —
40 Ni 60 Co		Bright as silver
22	3.20	not attacked —
29	3.21	Bright — Slight smudge wiped off
28	3.21	" "
23	3.21	Bright good —
21	3.20	" Slight smudge wiped off —

Notebook, N-07-04-13

had these reversed against Can – did not improve capacity – Reversed (much) 3 6 + 10 hours.
443 - 10 hour 670
444 - 6 610
445 - 3 565
40

	Tube	Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	
Sticky mix 21000 soaked H_2O screen [illegible] in system	350	812	840	841	827	827	807	791	772	775	808	807	806	762	777	712	682		
	351	803	820	825	816	815	797	777	745	738	790	792	793	753	765	711	680		
Co plated	352	806	832	837	825	822	812	790	753	738	788	796	785	757	768	718	682		
[illegible] sticky mix	359	850	850	840	815	812	786	778	732	768	818 (Reversed)	835	913		728	691	702		
Rings on before pkg	360	900	890	887	877	860	840	827	792	808	845	862	918		778	722	737		
Ni plated	361	923	917	908	895	895	883	873	845	860	883	892	950		806	737	737		
Cutting Irons, rings before pkg very sticky mix	368	898	885	850	807	800	762	748	680	683	825 (Reversed)	840	880	787	785	Tubes given to Holland to Reverse			
	369	826	835	842	813	815	777	687	721	712	811	820	880	790	793	The unreversed Cutting Irons 1300 which shows they are OK			
Ni plated	370	897	885	877	846	837	817	792	755	743	842	848	908	820	800				
Glucose mix	377	925	920	917	903	910	900	891	880	870	857	850	8		842	722	787		
	378	915	925	896	882	890	885	880	865	881	875	853			827	795	790		
Ni	379	935	917	907	892	892	885	872	847	853	847	837			815	756	757		
glucose mix sticky	383	883	895	888	882	870	860	845	803	810	792	770			781	687	657		
Rings on before pkg	384	877	896	888	885	870	878	860	812	817	802	790			776	662	570		sent to Holland
Co	385	883	896	900	892	882	880	857	818	830	805	787			775	700	665		
glucose 7000 Caffeine	404	962	981	998	987	978	968	953	905	900	865	837	847		761	Co			
	405	900	915	940	915	937	927	922	897	872	822	760	721		575				
Co	406	932	925	940	915	890	856	853	840	858	787	756	710		546				
Cutting Irons Reversed	440	842	845	847	857	841	840	817	815	787	785	762	712	716	630	560			Holland Has
	441	818	842	850	860	842	856	832	840	807	822	830	780	771	680	622			
Co	442	842	820	855	866	848	860	845	850	825	837	838	795	787	711	662			
Cutting Irons Reversed	443	855	862	875	885	867	880	862	862	792	780	720	782	667					all bad Iron nearly [illegible] given to be reversed by Holland
	444	880	885	895	900	888	892	872	875	775	770	712	667	650					
Ni	445	880	875	885	892	868x	865x	833x	840x	722x	692x	650x	600x	591					Co

Tried Co To Reverse nickel – see if [illegible] –

(first [illegible] irons [illegible] did not improve Ni tubes – now given to Holland to Reverse tube against the Can + see result. 445 on split scale.

	700	750
368	—	
369	713	735
370	743	732

	750
371	560
372	641
373	682

		Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Assembled with old rows —	451	807	827	826	808	797	795	772	721	743	697	692	697	Co Home to Halifax to test for Capacity		
	452	930	861	846	832	850	835	817	785	777	755	745	721			
	453	797	846	843	838	812	792	762	725	772	737	717	656			
Remount 356 but 2d rings Co	480	892	897	907	892	903	892	885	868	850	845	862	840	798	717	692
	481	897	900	913	910	913	893	906	887	870	865	816	846	775	697	545 Split off
	484	862	900	900	900	891	890	865	843	902	877	902	865	812	755	762
Remount of 371-374 cylinder had two rings on now 2d Duplicate 365 "	485	972	896	858	882	860	867	870	887	880	862	892	828	787		700
	486	932	851	862	850	842	837	792	787	850	840	872	808	787	707	722
	487	872	843	891	850	844	830	821	833	850	822	840	815	787	672	670
Remount 401 "	488	853	860	892	871	850	832	823	813	850	832	841	826	796	683	600
Remount 365 Co "	494	865	885	897	848	878	870	857	862	882	862	892	861	837	757	697
	495	843	765	887	883	871	850	850	850	862	837	867	850	822	736	712
Remount 365	496	950	936	937	908	900	875	881	871	937	906	873	848	807	618	550
	497	922	891	872	850	827	800	816	792	865	822	820	762	735	560	450
Co	498	897	892	900	900	857	778	778	750	635	538	443	Co	Co	Co	
Cutting Iron	499	847	850	865	852	822	815	790	815	848	820	837	803	760	682	445
	500	847	847	841	825	807	785	780	770	776	765	760	733	700	640	575
Co	501	847	917	915	916	910	900	890	897	917	885	922	863	835	830	780
Coffeeline not run through. Co	502	892	892	900	885	860	850	820	830	900	837	855	831	820	750	670
	503	850	872	865	867	831	825	800	800	850	815	850	803	777	750	602
ditto	505	877	892	900	865	830	827	807	783	882	850	897	840	820	775	765
	507	850	867	857	838	817	820	765	767	847	825	867	818	800	772	737
50 Single lamp pendulum table	511	912	930	955	952	950	937	932	910	945	957	952	903	857	800	825
	512	938	950	945	933	910	897	798	771	935	908	923	835	786	700	767

	Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
250 Wedge KCP	569	950	878	870	880	877	883	860	852	885	835	848	807	777	758	792		
	565	867	900	890	900	897	898	865	860	862	817	812	807	760	760	800		
M'	566	883	900	890	897	887	886	842	830	800	737	750	741	710	650	715		
100 Simple Tamper	646	907	855	866	850	845	850	87	910	950	827	875	817	835		787		
	647	795	845	866	860	837	847	825	787	872	827	865	820	810		767	Co	
M'	648	793	830	830	836	820	835	817	807	845	812	850	800	817		770		
100 Double Tamper	649	850	877	891	891	875	891	[redacted]								660		
	650	800	887	835	836	833	848	[redacted]								597	Co to Holland to 2 mm Hott	
Co	651	834	835	879	872	857	882	860	842	880	817	802	790	750		670		
	652	890	917	932	925	912	922	912	892	932	900	937	891	892	865	802		
dotto	653	908	936	950	955	950	950	947	925	932	917	946	900	915	837	807		
M'	654	927	950	940	950	941	945	955	937	957	925	945	882	820	758	745		
75 Double T	658	920	967	962	987	975	967	957	910	955	935	960	878	880	777	725		
	659	910	941	955	948	942	932	870	835	950	905	917	845	850	750	750	Co to Hollan for 2 mm	
M'	660	953	975	996	995	974	947	940	906	982	937	952	890	860	750	727		
flake Cu 50 m	673	895	882	885	885	806	812	775	735	842	787	787	730					
	674	922	911	930	916	900	855	870	831	900	887	885	807	Co				
Co	675	612	920	935	916	877	853	860	845	912	887	840	712					
Run Cold	752	900	985	993	955	1000	1002	987	1005	962	987	930	955	927	930			
	753	802	880	887	861	880	885	852	890	858	862	847	865	847	875			
Co	754	815	925	938	912	917	941	937	950	910	922	877	900	877	867			
Run Cold	755	890	917	913	900	922	920	900	922	853	870	833	850	822	825			
	756	877	967	980	972	987	980	972	987	938	945	920	935	930	935			
M'	757	917	997	1010	990	972	996	987	1015	953	973	941	956	937	937			

	Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Run Cold	758	831	970	967	971	960	962	943	965	940	930	877	895	872	857		
	759	832	918	940	903	930	945	915	937	937	900	847	862	822	800		
Co	760	895	992	1000	957	997	1012	977	1037	1000	957	917	933	910	950		
Run Cold	761	960	1030	1045	1040	1055	1055	1032	1055	1050	1012	987	997	957	987		
	762	977	958	972	965	982	997	982	1010	1013	970	950	967	937	952		
Ni	763	943	1025	1032	1017	1030	1033	1020	1048	1032	1007	992	1010	981	972		
Reg spectrum mixed long time under bubbles very sticky - thick	906	892	945	922	925	875	841	817	840		675						
	907	848	895	900	875	845	850	842	850		757	Co					
Ni	908	873	915	910	875	825	820	793	835		700						
Dry phy 100 section 16 flds 3/7 -	1183	850	885	883	887	887	927	890									
	1184	848	865	867	856	867	902	867									
	1185	873	900	895	907	895	936	907									
5 Cafleets 12 g Ilme 40 300 section dry pk	1301	902	955	962	948	957	971	941									
Ni	1302	882	880	866	850	830	767*	600*	Co								
150 section Large flake profile —	1297	621	597	582	570	555	626	625	595	570							
	1298	627	592	595	570	555	625	632	600	580							
Reg Eight 2400 Reg Eight phenyl 10 Co 24 g Ilme 20 fd simultaneously 1 Style	1470	1055	1066	1058	1070	1042	987	810	815								
	1471	1057	1067	1045	1070	1050	996	847	795	Co							
	1472	1055	1070	1056	1060	1032	977	819	787								
2400, 003 Cyl Cat 10 Co 24 g 2 Cu and phenyl Style 1 4148	1500	1003	1055	1043	1055	1065	1055	868									
	1501	1055	1083	1057	1070	1078	1070	847		Co							
	1502	1075	1075	1092	1087	1066	1008	867									
Dup 1500 Style 2	1503	1087	1110	1095	1092	1075	1043	876									
	1504	1110	1125	1095	1077	1070	972	895		Co.							
	1505	1092	1100	1045	1045	1017	890*	841									

Dry packing

	Cal	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Dup 1546 Style 2	1509	1046	1100	1095	1100	1097	1095	762 SX									
	1510	1062	1112	1097	1092	1100	1100	977	Co								
4.449	1511	1050	1086	1075	1070	1077	1085	987									
2400 003 (burn green) 10 Co 24 g style 2	1515	1068	1092	1067	1065	1062	948	762 SX									
	1516	1067	1090	1077	1072	1070	1035	827 SX	Co								
	1517	1046	1066	1055	1050	1065	1010	835 SX									
10 Co 24 g - 24000. Sm dry Chg 10 and 10 4.470	1512	1113	1108	1087	1072	1076	1035										
	1513	1100	1107	1080	1067	1055	955	Co									
	1514	1120	1127	1082	1040	967	862										
2400 003 10 Co 24 wet green 3 days KCP Ph in style 10	1530	956	993	1005	1017	1011	972	853	832 SX	752	747						
	1531	912	963	992	995	1000	950	860	832	690	825	Co					
	1532	827	862	910	912	917	871	690	675	635	805						
2400 003 10 Wt 1/2 Hook 24 g style 1 Not H.	1559	867	842	855	862	911	867	887	880	892							
	1560	867	830	855	860	905	910	905	880	912							
	1561	892	862	872	882	912	875	875	822	827							
2400 003 10 Wt 1/2 Hook Three H - 24 g style 1	1575	922	907	952	950	975	976	955	940	912	932						
	1576	892	890	922	927	942	950	933	922	900	917						
	1577	907	890	932	942	962	970	931	907	877	872						
2400 003 Spiral Lines 10 Co 24 g Style 2 Reg plan 4	1601	877	917	1017	1035	1027	1027	946	Co								
	1602	915	977	1010	1020	1017	1017	968									
Dup 1554 - Coat 10 Co 24 g plus with new plan 4 Section Style 2 Reg plan 14 and 14.	1609	957	981	1020	1037	1047	970	1005									
	1610	892	957	980	1010	1012	1037	943	Co								
	611	812	947	985	1011	1030	1037	962									
2400 003 10 Co 24 g Hung 88 Spiral (bad) 24 g Style 1	1624	972	1015	1005	1021	972	935										
	1625	976	1018	1026	1025	1025	986	Co									
	1626	987	1025	1010	1031	1006	960										

	Cad	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Nif Fancoth 4000 - 1 week before filter. Brew 2 gr sid. fermes. 24 g 10 nif 0001 Gmo	1740	962	1053	1095	1056	1000	997	1000 S									
2400 - 003 3 Cbs - [illegible]	1741	955	1061	1061	1068	1032	1052	1040									
Dotto 3½ Cbs 6.004	1742	1017	1085	1090	1073	1082	1077	1005 S	975 SS Gmo								
	1743	962	1036	1062	1037	1035	1106	1062	1070								
Dotto 4 Cbs 6.351	1744	998	1082	1080	1112	1087	1135	1100 OS	1087 OS Gmo								
	1745	957	1037	1042	1066	1027	1072	1030 S Gmo	1067								
Dotto 4½ 6.56	1746	908	987	1005	1037	1000	1050	1023 S	1000								
	1747	912	985	990	997	975	1012	973 Gmo	992								
Dotto 5 Cbs 6.53	1748	880	962	950	957	962	987	975 NS	972								
	1749	902	967	972	992	975	1000	987	972								
2400 - 004 Brew 4 lbs 2 10 24 g sid. fermes. Sunk 10 bang 10 m 3/2 2 Cbs	1762	1045	1153	1222	1202	570											
	1763	1130	1245	1265	1277	975 x											
	1764	1023	1197	1197	1220	962											
Do 4 Cbs	1765	1072	1242	1250	1280	1012 x											
	1766	1050	1266	1282	1275 x	655 x											
	1767	1082	1205	1210	1202 x	925 x											
Do 4½ Cbs	1768	1087	1157	1200	1205 x	851 x											
	1769	1083	1223	1237	1247	1207 x											
	1770	1023	1147	1137	1162	1050 x											
Do 5 Cbs	1771	987	1132	1166	1150	1162 x											
	1772	905	1030	1056	1100	962											
	1773	938	1127	1137	1152 x	1140 x											
Dotto N. Scale 3 Cbs Dog: Epithe 5.19	1774	970	1010	1050	1086	1087	1082 x	1072	1035	1047							
	1775	1017	1150	1147	1175	1177	1165	1160 SNS	1122	1130							
	1776	957	1075	1068	1087	1091	1065	1050 SNS	1023 S	1040							

4 hours old bu [illegible]

Nifkomoth

x Sight - sweet

3/32 = 1.093

		(Cd)	50	100	150	200	250
do Nifleto 3½ lbs 6.17	1777	955	1022	1017	1082	1068	1037
	1778	961	1050	1072	1057	1058	1050
	1779	943	1040	1046	1077	1087	1068
Ditto Nifleto 4 lbs 6.22	1780	983	1055	1078	1110	1092	1070
	1781	960	1065	1060	1057	1066	1037
	1782	967	1057	1087	1092	1095	1098
do 4½ lbs 6.3	1783	965	1056	1057	1047	1030	982
	1784	973	1131	1142	1155	1162	1135
	1785	965	1073	1072	1090	1100	1077
Do 5 lbs 6.45	1786	965	1060	1042	1070	1055	1030
	1787	902	1000	992	1005	1006	1000
	1788	927	1050	1043	1062	1062	1048
2400 – 005 – burs grams 1 remaining from 10 lbs 247 3 lbs square ridged	1789	958	1130	1160	1162	1172	1115
	1790	1030	1172	1200	1217	1153	922
	1791	950	1115	1158	1180	1085	827
Dup 1789 3½ lbs 5.40	1792	1000	1166	1196	1235	1245	1163
	1793	1035	1165	1157	1217	1227	922
	1794	1025	1200	1210	1222	1228	900
Dup 1789 4 lbs 5.76	1795	1000	1158	1205	1232	1237	970
	1796	1013	1173	1177	1237	1241	1207
	1797	935	1120	1140	1167	1167	1032
Dup 1789 4½ lbs 5.88	1798	892	1071	1116	1110	1133	762
	1799	900	1123	1132	1135	1142	1143
	1800	905	1112	1135	1136	1123	1112

Punctures from slightly bent – 55 Sunset inspect
B5 Rusty "
5 [illegible]
1058 bulging & bent

		300	350	400	450	500	550	600	650	700	750	800
1032	s	985	995									
1011	s	970	987									
1057	s	1030	1045									
1047	ss	997	970									
1023	ss	982	977									
1100	ss	1070	1080									
963	s	930s	900									
1135	s	1120	1100									
1080	ss	1047	1060									
990	s	945	920									
1012	s	992	1020									
1040	s	1017	1035									
Co												
948	s	Co										
825	ss	Co										
592	ss	Co										
790	ss	Co										
920	ss	Co										
763	ss	Co										
595	ss	Co										
960	ss	Co										
1050	ss	Co										

005. Stock Weed

		Bd	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Dup 1787 5 lbs 5.92	1801	895	1070	1100	1117	1142	1143	1122 3.0	572	500								
	1802	975	1050	1075	1120	1143	1145	013 08	520	500								
	1803	847	1015	1076	1107	1120	1113	043 3.85	800	740								
auto sidefeed 1000 21 g 005 2400 3½ 4 gr KCP	1828	1141	1135	1175	1075													
	1829	1137	1128	1130	785													
	1830	1105	1098	1090	656													
Dup 2 grms KBr	1831	1162	1137	1180	1087													
	1832	1162	1138	1172	1100													
	1833	1150	1130	1150	1095													
Dup 4 KBr	1835	1145	1137	1097	790													
	1836	1162	1047	907	927													
	1837	1147	1130	1078	972													
Nuflake 3½ 10 Ni 24 g 5.22 Reg sidefeed 2 grms KCP 005 Reg from sup feed	1838	1000	1000	997	966	975	920	930										
	1839	1002	1005	995	970	975	940	962										
	1840	983	975	992	975	984	945	962										
Nuflake Dup 1838 4 grms KCP 5.47	1841	978	1035	1037	1060	1062	1000	987										
	1842	958	955	977	1000	980	932	932										
	1843	942	935	1007	1000	995	937	900										
Nuflake 2 grms KBr 5.60	1844	940	915	925	925	935	870	867										
	1845	955	940	957	957	965	887	897										
	1846	963	941	962	962	965	890	890										
Nuflake 4 grms KBr 4.99	1847	1008	955	1010	990	1007	942	975										
	1848	1031	1010	1027	1012	1037	975	980										
	1849	1035	1025	1030	1012	1017	970	980										

Co.

Co

	Cd	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
1 Washer on	1977	1073	1100														
per calor	1978	1086	1115	Co													
5.76	1979	1092	1190														
Dup 1977 5.14	1980	1190	1155														
Except 2 washing	1981	1175	1143	Co													
	1982	1157	1160														
Reg grain 24 10 ply	2004	1117	1177	1252	1158	862	722										
005 Black 4.53	2005	1122	1235	1278	1162	971	837	Co									
6 Rings on	2006	1100	1130	1257	1132	1030	800										
5 gm Hand rubber	2085	1125	1175	1211	1232	815											
8 Rings –	2086	1148	1187	1247	1242	675	Co										
4.59	2087	1005	1168	1232	1200	602											
5 gm powdered Tin	2109	1210	1135	745													
	2110	1185	1062	583	Co												
	2111	1165	1037	485													
2 gm Paper	2112	1137	1181	1200	832												
4.60	2113	1131	1167	1207	697	Co											
	2114	1133	1155	1228	700												
4 washings on	2118	1087	1125	1152	1193												
per calor 4.77	2119	1123	1145	1150	1212	Co											
	2120	1142	1170	1182	1218												
5 washing 4.98	2121	1125	1147	1170	1205												
	2122	1130	1146	1162	1193	Co											
	2123	1154	1175	1188	1162												
5 gm Hand Rubber	2085	1125	1175	1211													
Chip – 4.59	2086	1148	1187	1247	Co												
	2087	1005	1168	1232													

Neverbend Cut 1st 50 Run with Rubber

Neverbend Paper on Except 1st 50 Runs

		Cold	50	100	150	200	250	300	
Dup 1804 Except 2 grm LiOH Each cell	2136	1145	1196	1267					Co
	2137	1151	1202	1275					
	2138	1137	1192	1305					
4 grm LiOH. Each Cell Reg 21% KOH.	2139	1132	1160	1300					
	2140	1125	1171	1291					
	2141	1122	1135	1286					
8 grm LiOH Each cell 21% KOH. 4.70	2142	1030	1010	960					
	2143	1055	1015	1195					
	2144	1060	1020	1085					
3 washings percolator	2184	1083	1160	1212	1212	1232			Co
	2185	1147	1165	1200	1078	610 xx			
	2186	1160	1212	1232	1235	1242			
Top of pocket loose	2202	955	990	1005	1030	1050	735	750	Split; Co
1/64 bent to stand with	2203	990	1017	1032	1045	1070	700	427	
	2204	1040	1027	1070	1060	960	560	412	Bad Split
6 washings in percolator 4.72	2205	1081	1145	1157	1135	1160			Co
	2206	1096	1150	1170	1133	1152			
	2207	1102	1168	1167	1060	1050			
Reg green 4.86 7 washings Percolator	2208	1066	1155	1212	845	650	587		Co
	2209	1088	1150	1228	1030	875	723		
	2210	1118	1171	1197	892	867	750		
Ditto 8 washings 4.77	2211	1103	1167	1206	982	892	780		
	2212	1108	1167	1053	897	822	800		
	2213	1112	1177	1200	920	967	922		
2 grms Sulp Soda Each cell	2187	1102	1137	1120	1147	905	800		Co
	2188	1087	1120	1107	1142	962	807		
	2189	1167	1130	1121	1145	887	722		

350 400 450 500 550 600 650 700 750 800

	250	300
2187	800	
88	807	
89	722	
90	735	682 Sulphate Na
91	802	717 Hot.
92	720	700

		Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
No wash air dried	2217	1066	1145	1107	1131													
washed free NaOH.						Co												
Dried indicator	2218	1080	1135	1100	1105													
200 f.p.h. 4.320	2219	1052	1115	1065	1035													
1/2 wash air dried	2220	1047	1128	1067	1075													
washed free NaOH.						Co												
heated indicator	2221	1075	1160	1110	1100													
200 f. 4.320	2222	1045	1142	1060	1061													
Ra 662 - 91% NaOH	2223	987																
9% B_2O_3 thro 20			Co															
10 c.f. - 4.34	2224	956																
	2225	1027																
Ra 90% NaOH.	2226	971																
10% $Co_2(OH)_6$			Co															
thro 20 10 c.f. - 5.41	2227	986																
	2228	1013																
Ra 90% $NaOH_2$	2229	1147																
10% B_2O_3 mixed			Co															
hopeless powder, 10 c.f. 4.92	2230	1130																
	2231	1147																
90% NaOH, 5	2232	970																
B_2O_3, 5 mixed by			Co															
mixed by hand. 5 gm NaOH, 5 gm B_2O_3	2233	897																
10 c.f. 4.02	2234	970																
Ra 718 thro 20 No wash	2235	1183	1202															
air dried washed dried																		
Ring pk. already fused	2236	1207	1207	Co														
thro 20 m 4.77	2237	1200	1187															
Ra 719	2238	1152	1082															
No wash air dry washed																		
dried already fused	2239	1172	1112	Co														
thro 20 m - 4.67	2240	1133	1050															

		Cold	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
Ra 745 - no washes not filtered and dried	2241	1121	1097	Co														
Dried low heat	2242	1121	1145															
percolated - 4.67	2243	1110	1112															
Ra 752 no washes	2244	1047	1022															
Dried low heat	2245	1063	1007	Co														
Cake not free 5.28	2246	1073	1050															
Ra 744 - no washes	2247	1212	1166	Co														
filtered and dried	2248	1187	1170															
low heat, percolated 4.80	2249	1205	1139															
Ra 745 10 x 24 Co gf	2250	682																
Reg - 005 - 24.10 -				Horrible														
very sticky in medium 6.44	2251	682		Great filter														
	2252	650		cloth was ruined				Co										
Ra 767 - 10 C 247	2253	1197	1177	Co														
005 - 24.00 - 4.70	2254	1212	1136															
Ra 768 -	2255	1165	1150	Co														
Dup 2253 4.70	2256	1197	1150															
Ra 769 -	2257	1175	1161	Co														
Dup 2253 5.25	2258	1208	1186															
Ra 770	2259	1207	1183	Co														
Dup 2253	2260	1230	1195															
Ra 771	2261	1177	1140	Co														
Dup 2253 4.92	2262	1170	1136															
Ra 772	2263	1235	1192	Co														
Dup 2253 4.82	2264	1182	1158															

All tubes after 2306 charged 8 hours

2270 not on 1st 6 hrs
71
72
74

		Cold	50	100	150	200	250
RA 766 Dup 2253	2269	1175	1137				
	2268	1200	1075	Co			
	2269	1180	1110				
RA 711 A. 4.31	2281		1101				
	2282		1128	Co			
	2283		1120				
RA 749. 4/17	2290		717				
	2291		720	Co			
RA 750. 4.23.	2292		910				
	2293		937	Co			
RA 751 4.02	2294		717				
	2295		925	Co			
RA 748. 4.25 no condensed gas that fellow.	2296		730				
	2297		722	Co			
RA 788 5.04	2298		1092				
	2299		1077	Co			
10 Co 24 3 f cut 1400.005 CP Cleaning & Gas charged	2300	1173	1100	1162			
	2301	1185	1092	1170			
	2302	1192	1112	1175			
Run Cold	2303	1250	1100	1077			
	2304	1192	1095	1150			
4.29	2305	1190	1090	1135			
Dup 2300 Except Except New pressure from Cuby	2306	1190	1050	1090			
	2307	1150	1062	1125			
Run Cold 4.28	2308	1200	1102	1155			

5

300	350	400	450	500	550	600	650	700	750	800
							100			
					2270		835			
					71		997			
					72		865			
					2275		627			
					76		565			
					77		820			
					78		725			
					79		858			
					80		672			

Co

all bad Select 4 Gas Pump broken on 2276

Everything after 2300
6 1/2 hours 200 chg 5 1/2
dia −180

6 1/2 chg

		Cold	50	100	
Dup 2306	2309	1170	987	790	570
Cutting same Run hot 8 hours cr-dio	2310	1210	1057	822	692
4.69	2311	1207	1042	857	617
Dup 2306 Cutting same	2312	1197	1192	1010	
Run hot reversed once week	2313	1143	975	1010	
4.72	2314	1130	1011	1002	
Dup 2300 Reg same	2315	1145			
Except 9 Co flakes 1 Ni	2316	1188	Co		
4.80	2317	1191			
Dup 2315	2318	1150			
Except 8 Co 2 ni flakes	2319	1135	Co		
24 g — 4.90	2320	1155			
Dup 2315	2321	1112			
Except 7 Co 3 ni flake	2322	1140	Co		
4.70	2323	1127			
Dup 2315	2324	1172			
6 Co 4 ni flake	2325	1172	Co		
4.83	2326	1165			
Dup 2315	2327	1146			
5 Co 5 ni flake	2328	1132	Co		
4.90	2329	1147			
Dup 2315	2330	1135			
Except 4 Co f 6 ni —	2331	1132	Co		
4.90	2332	1125			

Flat pockets /	2333	520	Co
	2334	547	
	2335	560	
	2336	522	
	2337	538	
Grissellmo 30 week from m 10 G 24 g Pay yk 2400 - 005 - 3 1/2	2338	1182	Co
	2339	1210	
4.43	2340	1186	
Dup 2338 Except grissellmo 70	2341	1182	Co
	2342	1182	
4.31	2343	1182	
Dup 2338 Except g lmo 50	2344	1183	Co
	2345	1158	
4.22	2346	1140	
Dup 2338 Except g lmo 60	2347	1215	Co
	2348	1185	
4.40	2349	1215	
Dup 2338 Except g lmo 100	2350	1097	Co
	2351	1097	
	2352	1117	
	2353		
	2354		
	2355		
	2356		
	2357		
	2358		

Due 2333 A-

6½h dry

		Cold	50	100	150
	2359				
	2360				
	2361				
2400-005 - 10 Co 24 8 Reg pack Run in 18% KOH 3% K_2CO_3	2362	795	952	872	
	2363	937	970	1017	
	2364	927	962	957	
Dup 2362 Except 16% KOH 5% K_2CO_3	2365	975	968	832	
	2366	965	957	845	
	2367	971	930	835	
Dup 2362 13% KOH 8% K_2CO_3	2368	827	811	822	871
	2369	787	823	895	872
	2370	857	835	867	880
Reg 2400-005 - Reg Everything Except 6 rings	2371	1107	1110	945	806
	2372	1100	1125	1110	912
	2373	1120	1140	912	807
Dup 2371 Except 8 Rings	2374	1107	1160	1067	1015
	2375	1115	1150	1087	917
	2376	1107	1115	875	897
	2377				
	2378				
	2379				
Reg 2400-005 - Reg 10 Co 24 - 6 rings 10 gm KCP	2380	1007			
	2381	1070	Deleaved Cold after cook and dry		
	2382	1062			
	~~2383~~				

CO

CO

6½ hrs. chg

		Cold	50	100		
Dup 2380 except 8 Rungs 10 g KCl	2383	1057				Co
	2384	1087				
	2385	1050				
	2386					
	2387					
	2388					
	2389					
	2390					
	2391					
	2392					
	2393					
	2394					
21 Hoberoos 4 rungs 10 Co 24 g reg pk	2395	1085				
	2396	1067	Co			
	2397	1065				
Dup 2395 but cont 6035 alcoh –	2398	1085	1175	1175°	1180	
	2399	1057	1137	1160°	1165	
	2400	1086	1177	1152°	1130	
Dup 2395. 21% KOH continuing 10 gm KCl	2401	1035	912	Co		after 5 Cold 50 Hot
	2402	1050	920			
	2403	1016	1060			
Dup 2398 except run in 21% KOH continuing 10 gm KCl	2404	1103	1137	1060	995	bad bent
	2405	1041	1040	850 (semi)	488	
	2406	1105	1050	707	800	

5=50-5		50	33		97	13+107	17+149	some cond.		
good but bent	158	170			150	148	bent some			
strong tobacco	240	239			225	238	some 97			
bent but cond ok	120	88			120	122	bent			
		135								

Co/Ni brown ppt

		50	100	150	200	250	
2400 10 Co 24 gm 3 hr boiled 1	2407	1070	1112	1082	950	652	400
	2408	1084	1100	1107	930	790	583
	2409	1073	1095	1135	800	880	767
Ni flake 10-0001 not weighed 3 hr wt 2400-005 4 rings 5.33 Repph	2410	908	835	847	845		
	2411	912	815	835	825		
	2412	915	837	857	880		
Dup 2410 -	2413	933	795	767	747		
	2414	895	807	817	830		
	2415	920	847	837	847		
Ni flake summer 2410 run in 21% KOH with 5.35 10 gms KCl 005 from 11	2416	912					
	2417	915					
	2418	932					
Ni flake & CoF2 24 gm 2400-005 3 hr wt. 4 rings 10 gms KCl	2419	970					
	2420	1030					
	2421	1100					
Dup 2419 except Ni flake 7 Co 3 — 10 gms KCl —	2422	1007					
	2423	1063					
	2424	1077					
6 pts Ni flake 4 CoF 10 gms KCl —	2425	1107					
	2426	1077					
	2427	1097					
5 Ni 5 Co flake 10 gms KCl	2428	1100					
	2429	1025					
	2430	1155					

Co all went bad in boiling
weight wrong after
5 Co runs

Co

Co

Co

Splat 4 places

" 3 places

Investigate this

			50	100	150	
10 nickel f 0001 no Hydrog	2431	903	677	587	570	
21 Hole 005 3 1/2 Cb cut	2432	907	690	625	572	
pk reg 4 rings	2433	917	872	890	907	
Dup 2431 Except Co flake	2434	1042	Co			
21 hole 005 4 rings	2435	1028				
	2436	1040				
Dup 2434 Except	2437	992	Co			
7 Ni 3 Co flake 21 hole	2438	992				
005 4 rings 3 1/2	2439	1000				
Dup 2434 Except	2440	958	Co			
8 Ni 2 Co flake	2441	952				
21 hole 005 3 1/2	2442	945				
10 Co tough not run	2443	800	1181	1067	Co	
thru H.	2444	537	1170	1115		
Freaky	2445	800	1200	1122		
2400-005 4 rings 10 Co 24 3 1/2 cut reg pack	2449	1150	1232	1222	930	Bad split
21% KOH 100 mlg LiOH	2450	1155	1222	1030	732	"
each cell 4.52	2451	1172	1223	1212	900	"
Dup 2449 Except	2452	1167	1245	1097	700	"
250 mlg LiOH each cell	2453	1157	1262	1082	670	"
4.60	2454	1161	1225	1082	750	"
Dup 2449 Except	2455	1207	1285	S 3 plus 1115	675	"
500 mlg LiOH each cell	2456	1137	1263	1132	672	"
4.68	2457	1132	1262	Split 3 plus 1208	427	"

Look at these –

Co

to Holland

		50	100	150		
Dup 2449 except 1 gmo LiOH each cell 4.59	2458	1200	1270	5 min 890 5 min	482	Badly Split + swollen
	2459	1212	1270	890 30 min	420	"
	2460	1160	1297	865	390	"
Dup 2449 except 1½ gmo LiOH each cell 4.52	2461	1170	1262	4 minutes 735	437	"
	2462	1162	1291	3 min 890	430	"
	2463	1200	1246	Scattered 688	450	"
21 Hole acme 005 Cobalt 4.62 4 Rings Cobalt Recap pk 1 gmo LiOH 21% KOH each cell	2464	1132	1230	1245	832	465 " Badly Split
	2465	1127	1235	1272	1017	847
	2466	1152	1267	1222	500	849 Bad Split 3 min Scarcely Split.
Dup 2465 except 2 gmo LiOH. 4.57	2467	1095	1240	1145	1017	
	2468	1142	1242	1297	927	
	2469	1147	1247	1247	1220	
21 Hole stock 005 10 mf 249 - 4 rings 2 gmo LiOH. 5.27	2470	892	992	1012	1015	
	2471	890	992	995	1000	
	2472	892	1000	1012	1022	
Dup 2470 Except cells (all) 15% KOH 4 2 gmo LiOH. 5.31 Each cell.	2473	865	882	850	890	
	2474	850	900	882	900	
	2475	845	895	875	892	
Dup 2464 Cobalt 15% KOH 2 gmo LiOH. 4.52	2476	992	1082	990	935	
	2477	1017	1117	1117	1060	
	2478	1008	1115	1087	1050	
Reg 2400 005 - Cf 15% KOH 2 gmo LiOH. 4.60	2479	1125	1215	1095 5	1010	Bad Split
	2480	1122	1135	1075	677	"
	2481	1140	1212	1145	847	"

Evidently - LiOH. attacks Cobalt flake probably dunegrinates, + then becomes active or its the increase of Capacity that does it.

June 3rd 1907 examined cells OK. short seam nomore bent than original + OK - Into Brown Fe chain -

23% KOH	A	2145	1140
		2146	1130
		2147	1132
25% KOH		2148	1137
		2149	1177
		2150	1182
27% KOH.		2151	1225
		2152	1215
		2153	1210
29% KOH.		2154	1232
		2155	1238
		2156	1237
19% KOH		2157	1077
		2158	1082
		2159	1087
17% KOH		2160	1035
		2161	1041
		2162	1022
15% KOH		2163	1005
		2164	972
		2165	967
13% KOH.		2166	932
		2167	940
		2168	942

$\frac{37.07}{1236}$

$\frac{2944}{981}$

		Gold	50	100
21 hole .005 in foam nozzle. 9 flakes 24 gr Spiral Reg green 4.37	2488	987	960	970
	2489	992	957	987
	2490	993	965	987
Drop 2488 Except 8 in foam 24 Reg green Spiral 4.25	2491	977	930	942
	2492	983	945	945
	2493	945	907	910
Drop 2488 Except 7 in f 24 green Spiral 4.22	2494	1007	950	942
	2495	1013	965	960
	2496	1021	970	942
Drop 2488 Except 6 in foam 24 gr 21 .005 Spiral 4.11	2497	1015	935	910
	2498	965	895	877
	2499	1000	887	850
24 hole .005 burn off Reflake treated Reg after heavy coated 4.43 Reg Copper Sol	2482	920	900	
	2483	917	862	
	2484	965	925	
Drop 2482 Except 21 Hole stock 4 Reg 4.22	2485	882	872	
	2486	952	935	
	2487	975	967	

		Cold	50	100					
11% KOH.	2169	896							
	2170	882							
	2171	880							
9% KOH.	2172	855							
	2173	840							
	2174	852							
			285	608	88	160	120	141	
A	2333	510	525	475	445	380	297	325	
Reg pockets	2334	513	530	477	440	382	305	322	
Reg Graffite Mix.	2335	502	520	462	440	382	302	325	
	2336	503	526	475	447	377	300	312	
X	2337	512	528	475	442	375	307	312	
A	2315	1097		473	463	349			
9 Co flake 1 Ni flake	2316	1082	Co						
	2317	1100							
8 Co 2 Ni flake	2318	1080							
	2319	1067	Co						
	2320	1073							
7 Co 3 Ni	2321	1082							
	2322	1075	Co						
	2323	1084							
6 Co 4 Ni	2324	1075							
	2325	1060	Co						
	2326	1053							
5 Co 5 Ni	2327	1030							
	2328	1025	Co						
	2329	1027							

90% of 12 Ni — 62% 100 / 28% 50 / 10% 0

This cell has 21% KOH, saturated with Li_2OH, after it has had 160 Hot runs — to run 20 Hot Runs —

160		
305	If made cuts E 18 - 288 leaves. Then 2nd or highest chge	
292	for cell would be	151 — 40 Runs
297		136 60 "
295		127 — 80 "
295		109 100 "
	28% 100 run loss	86 — 120 "

18 cells reduced on 1020 cubes to 4735 —

295
292
297
295
205 — Had within an at least 20 runs —

				Cob	50	100	150	200	
4 Co6 Ni flake	A	2330	1030						
		2331	1017		C	o			
		2332	1010						
No wash dried Low heat.	A	1983	1165						
		1984	1167						
		1985	1172						
½ wash Dried low heat	A	1986	1200						
		1987	1192						
		1988	1160			C	o		
½ wash Dried high heat	A	1989	1107						
		1990	1135						
		1991	1125						
No wash Dried high heat.		1992	1212						
		1993	1197						
		1994	1182						250.
4 grms K Sulfate. 10 Cobl 24 gr		2190	1112	1127		1142		1021	776 %
		2191	1115	1126		1142		961	797 %
		2192	1105	1127		1146		1060	633 %
Ni Peroxide made by Drs. Roth Nº 19 Reg 5.27		1998	895	1100	868				
		1999	867	1096	873		C	o	
		2000	865	1135	1082				

2826 w Bi 35 Fe 7 Mn
[illegible]
Hybrids

all [illegible]

		Cold	50	100	150
0001 Ti fish not H. [illegible]	5000	1081	1030	1050	1062
1030 24 g-wood in 150					
1983 - Tri wash dried	5001	1075	1032	1045	1065
low heat 26x30 005 4.87					
H Rings	5002	1068	1032	1055	1067
Dep 5000	5003	1082	1047	1062	1070
green wood in 1986					
1/2 wash Dried low heat	5004	1070	1045	1070	1077
2.19 4.92	5005	1083	1045	1072	1090
Dep 5000 -	5006	1042	1000	1025	1042
Green of 1989 - 1/2 wash					
Drying high heat,	5007	1030	982	1020	1027
1.98 5.39	5008	1087	1040	1090	1087
Dep 5000	5009	1093	992	1027	1032
green wood 1992					
Pre wash dried high heat	5010	1105	1042	1072	1085
2.06 5.35	5011	1111	1025	1070	1085
Dep 5000 5.52	5012	1056	1000	1062	1075
green one wash in					
Generalizer	5013	1055	1000	1055	1075
1.98	5014	1083	1025	1057	1057
Dep 5000 4.77.	5015	1015	941	945	962
2 washing generalizer					
2.16	5016	1022	950	962	992
	5017	1057	977	990	985
Dep 5000 4.65	5018	988	900	950	976
4 washing generalizer	5019	992	900	930	967
2.13	5020	1000	900	925	970
Dep 5000	5021	993	887	922	950
8 washing generalizer	5022	1018	900	932	942
[illegible] 4.56	5023	1015	900	942	962

about 5 wash gave 1 generalizer
of generalizer
other lost about 50 wash 150 Rinse

All Ni flake

		(60)	50	100	
Dep 5000 Greenhouse Rd 752 — 2244 5.08	5024	982	838	860	Co
	5025	967	830	850	
	5026				
Dep 5000 4.50 Except Rd 744 Greenhouse 2247	5027	975	913	950	962
	5028	980	922	952	982
	5029	978	935	960	975
Reg Ni flake 0001 not H. 005 26X30 Hero process High mm 5gm 21 4.50	5030	981	908	917	935
	5031	972	900	930	947
	5032	956	875	920	942
Dep 5030 Reg process Quality Time 21 4:56	5033	960	900	932	
	5034	950	888	920	
	5035	973	912	942	
Dep 5030 4.50 New process Quality Time Reg 21	5036	962	900	907	
	5037	952	912	895	
	5038	962	900	915	1.014
Ni flk 0001 4.45 not H. 26X30 005 3 gm 4 mm Run 30% KOH 4.63	5039	1142	712	640	542
	5040	1120	717	645	562
	5041	1106	725	632	545
31% KOH 4.54	5042	1092	682	657	600
	5043	1085	557	482	367
	5044	1110	700	690	567
29% KOH. 4.41	5045	1076	805	755	727
	5046	1077	822	797	742
	5047	1081	838	745	690

apparently grass is hurt,

Had this group changed to 21% then 12 hours at 200 rate then run on 60 and 5 [illegible]

		Cal	50	100		
	~~5047~~					
27% KOH. 4.62	5048	1031	870	850	827	
	5049	1031	825	835	827	
	5050	1036	837	845	825	
25% KOH. 4.57	5051	1010	881	882	870	
	5052	1012	915	925	917	
	5053	1015	920	920	937	
23% KOH 4.61	5054	990	910	915	917	
	5055	986	886	912	915	
	5056	987	900	925	935	
21% KOH 4.62	5056	966	908	940	962	
	5057	982	887	910	895	3)2797
	5058	982	918	932	940	932
19% KOH 4.57	5059	950	922	950	985	
	5060	957	932	950	972	3)2924
	5061	950	935	942	967	974
17% KOH. 4.59	5062	943	922	925	962	
	5063	922	931	945	967	3)2904
	5064	938	941	957	945	968
15% KOH 4.61	5065	907	930	942	962	
	5066	900	917	942	962	3)2879
	5067	891	897	932	955	959
13% KOH 4.59	5068	886	882	920	950	
	5069	872	887	920	942	3)2804
	5070	870	873	902	912	935

	Sample	Cool	40	100	150	
11% KOH, 4.53	5071	835	860	885	885	7)2654
	5072	830	852	872	882	883
	5073	820	852	890	887	
9% KOH, 4.58	5074	745	810	802		
	5075	755	820	812		
	5076	758	808	790		
Ra. 90% grain 10% Ra. 03 ✓ Sup # 2229 Mich/Ohio	5077	872	801	765	CO	
	5078	877	795	775		
	5079	876	808	807		
	5080					
	5081					
	5082					
	5083					
	5084					
	5085					
	5086					
	5087					
	5088					
	5089					
	5090					
	5091					
	5092					

	Code	40	100		
	5093				
	5094				
	5095				
	5096				
	5097				
	5098				
	5099				
Ni flakes Not thru H — coal slurry cut 30/1000 wind — thru 20 lb/24 g — 24x30 hole — 3½ lbs coal 4 pump bars — grind — 4:31	5100	962	900	835	750
	5101	957	932	930	932
	5102	945	887	877	862
Ditto but 20/1000 wind — 4:41	5103	980	915	870	790
	5104	955	906	867	832
	5105	947	928	912	907
Dup of 5100 — Except 21 hole coal slick — 4:22	5106	922	887	882	877
	5107	900	867	862	832
	5108	938	895	865	840
Dup. 5103 4:24 — Except 21 hole coal slick	5109	923	897	895	835
	5110	962	917	637	560
	5111	955	917	897	822
Ni flakes/slick Not thru H — 24x30 hole coal — bars off — grey pk 10 of 2 g 3½ — 4:29	5112	985	935	955	950
	5113	986	950	950	952
	5114	997	965	955	967
9 ft/2 thick — 4:37	5115	1005	975	987	972
	5116	1001	980	992	980
	5117	1000	982	992	983

Investigate this

		Cold	50	100	150
Dup 5112					
Except 8 mfl 1/2 thick	5118	998	978	990	980
24 g —	5119	986	960	972	967
4.47	5120	996	972	1005	987
Dup 5112	5121	997	972	990	972
Except 7 flake 1/2 thick	5122	1002	1010	995	980
24 g 4.60	5123	1000	981	1005	982
Dup 5112 4.81	5124	1020	995	1017	977
Except 6 flake 1/2 thick	5125	1002	981	1007	975
24 g	5126	1006	973	1000	980
Dup 5112 4.93	5127	987	962	997	965
Except 5 flake 1/2 thick	5128	987	970	995	977
24 g 2.0	5129	996	976	977	962
Dup 5112 5.07	5130	1007	985	992	957
Except 4 mfl 1/2 thick	5131	982	981	977	967
24 g — 1.95	5132	985	983	985	962
Dup 5112 5.09	5133	1002	997	1000	950
Except 3 mfl 1/2 thick	5134	1000	1005	1007	962
24 g — 1.99	5135	995	977	980	935
Rep 5136 flake 0001 inches thick	5136	911	890	895	
but flake 11 reduction very					
brittle and broke in two at	5137	900	825	815	
26x30 hole 0.05 4.77					
Rep — 4.77	5138	912	870	850	
Dup 5136	5139	920	860	850	
Except 5 Rep —	5140	925	777	865	
4.77	5141	925	850	820	

Low bottom 10 x 2 hole abnormal

Co

5167 (unaged) early but to 12th 5166 OK 25 Hot.

		Cold	50	100	150
Dup 5136 Except 6 Rings 4.82	5142	900	855	860	CO
	5143	918	900	875	
	5144	915	891	900	
Reg 0001 Nitrile not Thinkt H – 3 lbs – 26X30 hole not burned 66 Reg pk – 4 rings 4.47	5145	930	905	927	925
	5146	940	923	942	920
	5147	940	916	935	937
Dup 5145 Except 5 Rings 4.50	5148	922	906	930	920
	5149	922	915	920	900
	5150	931	927	932	937
Dup 5145 Except 4 lb cut 4 rings 4.71	5151	960	936	930	915
	5152	971	950	947	950
	5153	990	950	940	930
Dup 5145 Except 4½ lb cut 4 Rings 4.77	5154	942	950	932	925
	5155	947	917	917	895
	5156	957	935	937	920
Nitrile 0001 not Thinkt 21 Hole 4 lbs cut 4 Rings – 4 lb cut 4.60	5157	900	880	882	870
	5158	892	865	870	872
	5159	881	875	872	815
Dup 5157 4.60 Except 5 Rings	5160	900	906	917	840
	5161	900	892	900	825
	5162	915	870	870	800
21 Hole Co flake 10 Cof 249 Cone Turn Spiral blade 4 Rings 4.45	5163	991	1050	892	CO
	5164	1012	1063	895	
	5165	1007	1107	965	
Dup 5163 4.44 (10 grms KOP)	5166	1050	970	767	CO
	5167	1027	CO		

5-50		70 Hot	97 92	
OK – 230	230 Seam opened	230 Seam open	228 Seam only Swelled	

Sodium dropped to 21%

21 Hole 1/2 Linen Reg Cafinbe 10 gr 24	5168	937	1007	937	
	5169	970	1017	877	
	5170	917	983	877	
26880 005 3½ 46 10 inf 0001 not th 24 g Rumm 33% NaOH	5171	530	150	580	
	5172	410	400	420	
	5173	500	422	575	
Dup 5171 4.19 31% NaOH,	5174	690	670	660	
	5175	725	735	665	
	5176	730	750	685	
Dup 5171 4.24 29% NaOH,	5177	850	900	800	665
	5178	720	792	645	565
	5179	827	877	690	622
Dup 5171 4.31 27% NAOH,	5180	1045	990	735	640
	5181	1047	996	825	650
	5182	1063	1008	850	740
Dup 5171 4.26 25% NaOH,	5183	1125	1005	850	757
	5184	1138	917	785	717
	5185	1132	998	895	727
23% NaOH 4.30	5186	1087	1032	940	772
	5187	1070	991	900	707
	5188	1063	997	880	800
21% NaOH 4.29	5189	1050	987	900	797
	5190	1047	998	885	850
	5191	1045	998	930	865

21% put in Reversed 200 mf for 12 hours then fresh reg 5 hours on 60 and [illegible] what did it do –

Taldhum Empty out NaOH, put in 15% NaOH soak 24 hours then 15% NaOH or 2 gms Lithia Hydroxy rummboan

		Cold	50	100	
2-24 19% NaOH. 4:30	5192	1005	908	850	3)2557 850
	5193	1005	897	850	
	5194	1000	911	877	
17% NaOH. 4:31	5195	980	907	880	3)2662 887
	5196	977	905	890	
	5197	985	910	892	
15% NaOH. 4:28	5198	942	910	897	2669
	5199	945	902	877	
	5200	947	910	895	
13% NaOH. 4:26	5201	945	907	900	3)2710 903
	5202	910	906	915	
	5203	900	895	895	
11% NaOH 4:24	5204	867	912	900	3)2691 897
	5205	870	917	900	
	5206	875	912	897	
9% NaOH. 4:05	5207	827	892	847	3)1324 442
	5208	835	900	877	
	5209	787	840	650	
7% NaOH 4:22	5210	790	840	825	
	5211	798	837	785	
	5212	793	812	785	
2400 cc 5 Propylene Glycol Gives mixture of Rubber 10 ml Cute rag ood 1 Not H 32 24 g rag ok 4:18	5213	950	932	870	
	5214	952	927	877	
	5215	940	925	872	

Invalidate.

Low weights of green in lots due to too mild fires — 90 mm compressing 4.155 to 4.10

9 in group 4.19	5216	978	922	900	Co
	5217	897	792	745	
	5218	960	887	852	
	5219	940	890	840	
	5220	982	755	582	
	5221	975	962	940	
Dup of 5213 Except 5 Rings 4.15	5222	840	842	800	Co
	5223	922	910	882	
	5224	910	875	827	
	5225	962	852	920	
	5226	972	958	925	
	5227	970	955	917	
	5228	950	953	922	
	5229	960	920	887	
2.36	5230	965	940	937	
24.00 005 Burns not ground off — 10 M 0001 3½ lbs lot, 4 rings 24 reg gram Reg pk not H, 4.12	5231	967	925		Co
	5232	965	925		
	5233	995	952		
	5234	975	933	900	
	5235	987	951	917	
	5236	977	923	930	
	5237	978	936	912	
	5238	970	878	807	
2.37	5239	964	926	917	

~~There was probably less green in the lot because of fires~~

Investigate, last green to flake also

Investigate,

Then ran 5 times on Reg — + put back on flat of reel

Then taken off hot run after 50 min. & Reversed

5231 3 hours	890
5232 6 "	887
5233 12 "	925

Bed appears too much forces it. Cannot find it out

Dup. of 5821	5240	975	945	932	
Except 5 Rings	5241	962	926	917	
	5242	967	900	880	Co
	5243	978	928	910	
	5244	970	922	912	
4.17	5245	975	935	922	
	5246	977	938	917	
	5247	975	928	912	
	5248	950	921	882	
Stock 26x30 005	5249	1000	955	915	
burr off. 3½ lb cut	5250	1000	962	937	
4 Rings - Reg pack	5251	1012	962	932	
Niff. i.d. 6001 not H.	5252	980	912	880	Co
grind 24 thro 20 fine i	5253	945	860	832	
	5254	1002	930	897	
2.36 4.12	5255	1006	960	935	
	5256	985	917	897	
	5257	1005	950	987	
Dup of 5249	5258	1007	950	912	
Except 5 Rings	5259	972	911	890	
	5260	972	863	812	Co
4.15	5261	1006	931	907	
	5262	997	945	930	
	5263	980	897	855	

Cont part	5264	982	897	860	
2.34 9 in group	5265	980	937	930	
	5266	1000	950	912	
Stock 21 holes acorn	5267	942	910	860	Co
005 - bars off	5268	907	850	825	
3½ lb-lot 4 rings	5269	870	847	835	
Reg pack 10 ml	5270	892	842	905	
flake 0001 not H.	5271	927	868	837	
2.4 green thru 20	5272	921	872	867	
fence-line	5273	946	900	895	
4.16	5274	792	695	670	Inverelgale county originally rotten.
2.7	5275	935	845	842	
Dup of 5267	5276	961	905	885	Co
Except 5 Rings -	5277	957	892	870	
	5278	985	918	905	
	5279	951	887	835	
4.04	5280	896	810	742	Inverelgale,
	5281	946	880	835	
	5282	960	876	835	
2.35	5283	951	885	850	
	5284	960	895	847	Co
Stock big punched holes	5285	935	907	892	
005 - 10 lb foot	5286	902	905	837	
not H - Reg pk 3½					
Co 2.4 Rly g -	5287	895	843	792	Inverelgale

Really 1.94

Green group
Second lot of pots
4.15
2.21

			50	
	5288	908	855	800
	5289	912	875	830
	5290	937	855	790
	5291	922	860	825
	5292	908	881	842
	5293	925	870	840
Drop 5285	5294	959	920	927
Except 5 Ring	5295	952	926	957
	5296	950	810	730
	5297	957	917	922
	5298	933	921	945
	5299	940	935	957
4.47	5300	905	896	877
	5301	920	896	930
	5302	938	932	967
Stock 2400 - Guro ground, 4 rings	5303	960	948	992
Spiral full turn	5304	895	886	915
	5305	930	937	967
3½ Elliot Nib	5306	927	930	950
Soft 0001 Reg	5307	932	915	930
Pack 24 Reg green	5308	932	948	977
This 20 found —	5309	955	940	970
4 rings 4.50	5310	956	942	970
	5311	977	956	975

Discolored out by KCl

				% flake
Wt flake 5288	1.030	Wt of Mix	5.774	17.8 %
" 5289	1.146		5.950	19.2
5290	1.322		6.164	21.4
5291	1.214		6.009	20.2
5292	1.254		5.926	21.1
5293	1.273		6.042	21.6

Should have been 30% flake — 20.2

Investigate this —

		Weight of Mix	Wt of Mix Minus Flake	Wt of Flake	% Flake
Tested	5280	5.586	5.488	0.540	85+15
	5274	5.437	5.870	0.538	91+9
	5287	5.710	5.617	1.004	81+19
	5296	6.418	6.282	1.524	75+25

This shows horribly irregular yield, without regulator in flake hopper

5321 to 5326 often 5 Cycles 16 hot run 6½ runs OK no cages trouble –

X guess based on reading only had left than most

		Cycles	50	100			
Dupaf 5303	5312	992	956	962			
Except 26X30.	5313	987	940	957			
Spiral one	5314	985	955	982			
Complete turn	5315	990	943	970			
	5316	957	942	955			
4 Rings	5317	977	950	962			
	5318	985	947	950			
4.51	5319	1007	947	962			
	5320	981	941	965			
21 Hole stock .005	5321	970	845	765			
Ni flake not H. ~~Rings~~ RCP	5322	975	958	930	X		
10 flake .224 Rings	5323	966	937	917			
Dup 5321 .4-47	5324	971	958	915			
Except punched hole	5325	987	885	865			
Single Rings RCP	5326	965	931	917			
Punched hole block	5327	985	967	990			
Spiral tube one wall turn	5328	1035	1000	1012			
Ring Nf .001 not H. 24 Rings 1.49	5329	992	960	977			
Punched hole stock .005 = Squared one turn	5329½	937	900	940			
Ring Ni flake .005 – not H. 10 fl 24 g 129 gmt 21%	5330	925	922	960			
	5331	940	935	972			
	5332	958	942	972			
4.57	5333	935	925	962			
	5334	905	890	932			

		5 Squared	9+64	9-72	9+86	12+100
5-42	98				all	
all ok.	all				ok	
	ok	all ok	all ok	ok		ok
5-19 = ok	25 ok					

See last page	5335	952	870	842	
	5336	933	927	950	
	5337	972	967	987	
Dup 5329½	5338				
Exception — 33%	5339				
Kott	5340				
Dup 5329½ Except Nil Grades in cut drip. 60 Here ones 3 thro — milk 4.47	5341	927	887		
	5342	967	932		
	5343	1012	972		
Same as 5341 Except 21 Hole stick Spiral — 4.44	5344	1035	990		
	5345	1023	925		
	5346	1033	990		
21 Hole stick 005 — SPIRAL one Complete turn 3½ 10 nf 24 g 0001 Not H — Rep pack 24 grams 21% 4.44	5347	956	938	977	
	5348	990	902	945	
	5349	997	970	1008	
	5350	1006	955	957	
	5351	985	942	960	
	5352	995	942	940	
	5353	987	938	922	12 thing put in 2 grams of Oil
	5354	985	932	923	
	5355	1000	920	925	
21 Hole 005 10 nf 0001 Not H. 3½ 60 Rep pk 24 grms Kott 5.5 Rep 4.4	5356	1090	782	637	
	5357	1125	833	672	
	5358	1122	802	645	

Emptied out 33 put in 21% soaked 24 hours — then put in 21% [illegible] 2 grams Kott each code —

Run 31% KOH	5359	1085	887	762	
2.35 4.25	5360	1083	783	635	
	5361	1050	785	692	
	5362	1030	775	632	
29% 4.30	5363	1032	477	382	
2.34	5364	967	768	925	
	5365	1008	868	865	
27% 4.31	5366	1012	875	800	
2.324	5367	1010	906	862	
	5368	995	908	890	
25% 4.34	5369	1017	938	912	
2.31	5370	997	910	850	
	5371	945	907	885	
23% 4.38	5372	996	922	892	
2.28	5373	947	900	895	
	5374	975	940	927	
21% 4.38	5375	948	920	915	
2.20	5376	970	880	812	
	5377	935	931	932	
19% 4.29	5378	940	946	937	
2.16	5379	912	921	921	
	5380	897	925	922	
17% 4.27	5381	912	931	927	
	5382	897	928	910	

15% KOH 203 4.24	5383	862	927	927		
	5384	872	928	925		
	5385	845	900	850		
13% 203 4.23	5386	855	900	897		
	5387	865	915	918		
	5388	762	925	802		
11% 197 4.21	5389	790	877	850		
	5390	835	912	900		
	5391	825	892	860		
9% 177 4.21	5392	757	817	760		
	5393	765	833	825		
	5394	720	795	787		
7% 149 4.21	5395	700	748	632		
	5396	750	820	782		
	5397	690	807	792		
21 Hole 005 Nif 0.001 Neat H-Reg peak 10 [illegible] 2.4 gr 33 lbs 21% 4 hr [illegible] 5 R [illegible] gel to Hollow 4.24	5398	977	947			
	5399	957	925			
	5400	975	942			
Dump of 5398 Neat 21 hole Spiral 4 R [illegible] after 5 R [illegible] gel to Hollow 4.24 4.24	5401	1006	977			Hollow
	5402	992	950			
	5403	980	945			
26 hole 005 Nif 10 [illegible] 2.4 gr neat H-Reg 4 hr 15% 4 R [illegible] after 5 R [illegible] gel to Hollow 4.24 4.24	5404	955	927			
	5405	958	945			
	5406	958	925			

5 rings — 31 mah fell letters 4 rings cold —
5422 to 24 ok 5 ends started ok but 2225 to 27 one broke.

Dump 5404 Except spiral tubes 5 Run. change to Hollands 4.49	5407	990	955	
	5408	1013	975	
	5409	1031	987	
Punched Hole stock .005 Mf 10 .0001 not H 24 gr 3½ lbs Rag pk 4 Rings 5 run then goes to Hollands 4.49	5410	960	927	
	5411	946	927	
	5412	961	930	
Dump 5410 Except Spiral tubes 5 Run then goes to Hollands 4.51	5413	962	922	Hollands
	5414	995	957	
	5415	950	922	
2400 stock .005 10 M M .0001 not H, 24 gr Rag pk 4 rings 5 Runs then Hollands 4.48	5416	992	920	
	5417	962	925	
	5418	963	925	
Dump 5416 4.48 Spiral tubes 5 Runs goes to Hollands	5419	1001	972	
	5420	990	972	
	5421	990	957	
21 Hole .005 Spiral 10 M 24 gr Rag pk 4 Ring Tops not fastened 21½ RQ Gms RCP 4.11	5422	882	870	897
	5423	927	900	500
	5424	917	895	927
Dump 5422 26 x 30 .005 Spiral not fastened tops. RQ gr RCP — tubes spiraling 4.16	5425	945	972	9420
	5426	1007	945	890
	5427	875	898	905
21 Hole .005 Mf 10 .0001 24 gr rag pk 4.18 Spiral 33% RCP	5428	1140	882	650
	5429	1110	855	700
	5430	1092	782	607
one 3rd Hollands Dump 2 for run	100	5407	8 q wrong	105 417-18-19 bad, for 5403

Note after 5641 5 all old & new tubes go on 6½ hour chg at 200 & 5½ hours chg at 180 1 hour grace 2 hours Daily KOH change stirrer during run & once at end of run

5-26		5-46	9-50	9-56	9-70	9-95
OK	248	OK	All OK	all ok	OK except	
OK	245	OK	except	except	5423 bad	OK
OK	248	OK	5425	5425	detection	
breaking seam off	115	135 broken seam off	do	do	5426	
seam blown open & broken	218	small blown seam	Bent	bent	seam opening	Rope tube seam off
OK	250	OK	117 —			OK

of 33% ... Cool Hot Cool Run
21 Hole 1114 – Punched 1033 – 26X30 1137 – 30X34 1015

		50	100	
Dup 5428 Except Punched clock. Spiral 4:29 (33% KOH)	5431	915	640	505
	5432	1095	800	647
	5433	1090	840	575
Dup 5428 Except 26X30 005 Spiral 4:30 (33% KOH.)	5434	1127	800	600
	5435	1145	750	550
	5436	1145	800	582
Dup 5428 Except 30X34 005 Spiral 4:01 (33% KOH)	5437	870	890	492
	5438	1080	700	555
	5439	1095	833	632
21 Hole 0.035 burr ground, clean nick 10 M 0001 24 g 199 4:19 Spiral Flake 21% KOH	5440	970	955	970
	5441	972	942	980
	5442	930	892	920
RQ 707 Spiral 21 Hole 005 Not as cold not fl. Good clean Low heat. 0 Rep. 2:17 5:10.	5443	1091	980	940
	5444	1060	1012	980
	5445	1092	987	942
Dup 5443 26X30 005 SPIRAL 2:17 5:12	5446	1117	972	920
	5447	1100	987	940
	5448	1112	970	892
RQ 707 Half as cold – Flaked burrs high heat. 26X30 005 SPIRAL. Rep 2:11 5:56.	5449	1163	1135	1070
	5450	1175	1155	1135
	5451	1177	1155	1100
Dup 5449 21 Hole 005 Spiral 2:13 5:56.	5452	1167	1185	1175
	5453	1200	1200	1170
	5454	1185	1172	1135

								of KC Sulphate
Original cut mix	8033 – before Rep		7929	1000	103 mlg	1.972
"	7927	"	7929	"	97	1.782
"	7911	"	7859	"	52	1.943

5449 – flake 25%
5450 23%
5451 25%

			50	
RQ 707 ½ wash not filtered Dried low heat 21 hole .005 Spiral. Req 9:31 5:04.	5455	1155	1107	1075
	5456	1157	1060	1025
	5457	1180	1120	1117
Dup 5455 26 X 30 .005 Spiral 9:36 5:11	5458	1186	1042	982
	5459	1202	1022	910
	5460	1190	1030	942
RQ 707 - ½ wash filtered, Dried High heat 21 Hole .005 SPIRAL Req 9:13 5:19	5461	1092	922	875
	5462	1095	915	865
	5463	1125	910	790
Dup 5461 - 26 X 30 .005 Spiral Req 9:19 5:10	5464	1132	925	842
	5465	1140	897	822
	5466	1092	892	835
RQ 707 - Req wash filtered Dried low heat Spiral 21 Hole .005 Req 9:46 4:46	5467	952	937	972
	5468	971	960	985
	5469	971	957	972
Dup 5467 26 X 30 .005 Spiral 9:50 4:41	5470	950	945	967
	5471	967	947	970
	5472	1002	962	970
RQ 707 - Req wash (not filtered) Dried High heat 21 Hole .005 Spiral Req 9:56 4:37	5473	982	967	982
	5474	997	985	997
	5475	1008	985	997
Dup 5473 4 26 X 30 .005 Spiral 9:58 4:43	5476	1022	995	1007
	5477	995	967	980
	5478	1010	922	942

Thin Tube missed South side of Collect No. 5455

Go

flake

5459 ~~original wt~~ 7.317 by Key wt of ft 1.456 80 20.
5460 orig wt 7.317 by Key wt of ft 1.539 80 20
5461 - original wt 7.472 by Key found wt flake 1.616 21% flake

1.525 flake Orig wt 7.408 23% flake

1.421 flake ~~7.300 orig wt~~ 19% flake 5455 is ok
1.580 flake = 21% ft orig wt 7.365. with 21 .005 spiral -

CLC ni flake

		Cold	50	
RA707 Reg number of Washed, filtered, Dried High heat. 21 Hole .005" Spiral. Reg 2.17 4.40	5479	947	935	970
	5480	965	947	975
	5481	960	947	980
Dup 5479 26X30 .005" Spiral 2.17 4.47	5482	987	942	970
	5483	970	935	945
	5484	957	922	955
RA707 Reg number Washed Not filtered Dried low heat. 21 Hole .005" Spiral Reg 2.17 4.24	5485	900	895	922
	5486	945	935	967
	5487	931	917	947
Dup 5485 26X30 .005" Spiral 2.16 4.48	5488	962	922	965
	5489	968	887	912
	5490	972	857	862
put about .05 green under ball for sponge see exhibit. Pack 21 Hole .005" Spiral 2.10 4.46	5491	972		932
	5492	987	X	947
	5493	1000		957
Dup 5491 — Special green on hot plate 3 hours. 2.1 4.16	5494	865	822	842
	5495	893	837 X	855
	5496	882	793	852
RA707 No wash, not filtered dried high heat 21 Hole .005" Spiral Reg (trial) 5.32 1.19	5497	1000	832	700
	5498	982	792	690
	5499	967	822	690
Dup 5497 26X30 .005" Spiral. Reg (trial) 5.42 1.19	5500	1025	875	787
	5501	1030	720	607
	5502	1026	817	740

1.516 flakes 6.359 orig wt 23.8% flake.

The difference between these 2 5491 [illegible] & 5494 was in the green the tube. The dilution but must be due to friction — shaking & breaking up most green [illegible] for better of powder drier [illegible]

There was much diff per percentage but wet green got worse in Tubes — a check about well the difference —

5512 is good up Testing
why low Cap on hot side

		Cold	50		
Dup 5497	5503	980	792	675	
Except 21 hole 0035	5504	980	822	687	
Spiral – 2.97 [illegible] 5.51	5505	1050	765	755	
Dup 5497	5506	1072	920	855	
Except 26x30 0035	5507	1085	920	865	
Spiral – 2.97 [illegible] 5.56	5508	1070	950	877	
RC 707 – No weight drawn down heat, filters	5509	1196	1130	1095	
21 Hole .005 Spiral	5510	1212	1177	1172	
Rej 2.20 5.49	5511	1215	1117	1092	
Dup 5509	5512	1243*	1175	1172	
21 Hole 0035 spiral –	5513	1245	1170	1160	
2.11e 5.61	5514	1250	1170	1197	
Dup 5509	5515	1230	1192	1172	
26x30 0035	5516	1230	1180	1175	
spiral – 2.12 5.61	5517	1238	1190	1162	
Dup 5509	5518	1207	1097	1047	
26x30 - .005 spiral	5519	1192	1077	1025	
2.17 5.48	5520	1175	1075	1032	
RC 797 not weighed filters – dried high heat	5521	1187	920	727	
21 Hole .005	5522	1166	1135	1095	
Rej 2.00 5.84	5523	1137	1015	927	
Dup 5521	5524	1150	1067	1032	
21 Hole 0035 spiral	5525	1127	1000	957	
Rej 1.91 5.95	5526	1150	1030	995	

argument 8.041 before Rej 8.139 from 98 Rej after Rej flash – 2.2186 25%
" 7.977 " 8.071 " 94 " 2.0726 25.4%
" 8.041 " 8.139 " 98 " 2.0655 25.2

Crossed on wet asbestos

Dup 5521	5527	1095	* 872	822	
26 X 30 005	5528	1112	922	870	
Spiral- 5.77	5529	1082	872	760	
Rq 707 ½ wash filtered dried low heat	5530	1183	1165	1150	
21 Hole 005 Spiral	5531	1157	1150	1137	
Rq 2.11 5.14	5532	1165	1137	1127	
Dup 5530	5533	1217	1197	1155	
21 Hole 0035	5534	1207	1192	1157	
Spiral 2.14 5.35	5535	1210	1220	1180	
Dup 5530	5536	1145	1115	1075	
26 X 30 005 spiral	5537	1137	1095	1097	
2.14 5.27	5538	1177	1050	1100	
Dup 5530	5539	1207	1207	1132	
26 X 30 0035	5540	1233	1205	1147	
Spiral- 2.31 5.29	5541	1232	1215	1185	
Dup 5530	5542	1207	1177	1140	
30 X 34 005 spiral	5543	1195	1185	1167	
2.34 5.14	5544	1212	1035	930	
21 Hole 0035 Spiral-	5545	1166	777	680	
Rq- Run 93% KOH	5546	1187	847	700	
4.73	5547	1203	875	730	
Dup 5545 4.69	5548	1158	757 x	682	
26 X 30 0035	5549	1257	892 x	812	
Spiral Run 33% KOH	5550	1218	877 x	742	
x Mech 21 but x tall holes		all broken 2.11			

all Spiral

		60	100	
Dup 5449 Except 33% KOH. 5 Rings	5551	1000	665	580
	5552	1032	777	630
	5553	1032	807	600
Dup 5452 Run in 33% KOH 5 Rings	5554	1023	750	612
	5555	1015	805	630
	5556	950	760	562
21 Hole 0035 spiral Reg pk 10 in from green 24 Run in 10 gm KOH Rend cell 4.69	5557	1042	970	982
	5558	1060	997	1007
	5559	1070	982	962
26x30 0035 Spiral Reg pk 10 in from 10 g KOH 4.70	5560	1041	995	995
	5561	1037	992	1007
	5562	1057	992	985
21 Hole 005 SPIRAL Reg pk 5 Rings 4.61 Run in 33% KOH	5563	1176	790	650
	5564	1122	685	535
	5565	1206	750	650
Dup 5563 Except 21 Hole 0035 5 Rings 4.61 Run 33%	5566	1218	840	712
	5567	1223	515	417
	5568	1188	915	745
26x30 Spiral 0035 Reg pk 10 in 24 green 4.71 5 Rings Run 33% KOH	5569	1217	845	700
	5570	1200	865*	707
	5571	1175	862	682
Dup 5569 Spiral Except 26x30 005 4.64 5 Rings 33% KOH	5572	1130	722	565
	5573	1135	772	627
	5574	1137	385	510

test

5422	5436	7x50	9x72
215 ok	ok		
245 ok	ok	all ok	ok
175 bent	bent		
215 ok	ok		
195 ok	ok		
255 bent.	ok.		

dec Spiral

		March 28 07		
RA707 -1/2 wash 5183 filling - 3 rod high heat	5575	1027	850	645
21 Hole 005 - Spiral 5 Rings	5576	992	920	670
Rep pk 33% Smooth 5449	5577	1018	842	662
Dup 5576 21 Hole 0035 - 5 Rings	5578	1070	690*	540
Rep pk 33% 5449	5579	1085	880 x	675
	5580	1110	867 x	725
RA707 Smooth 5449 - 26 X 30 0035 - 6 Rings - Spiral Rep pk	5581	1110	787	665
33% RDH.	5581½	1110	847 x	662
	5582	1080	847 x	680
Dup 5581 Except Z 6 X 30 005 - Spiral 5 Rings 33%	5583	942	645	450
	5584	862	520	150
	~~5585~~			
RA707 Smooth 5449 No wash not fill - 3 rod low heat, To Holland - To Hot Hot then Holland 26 X 30 005 - Spiral 21½ Rep 5-26	5586	1111	890	
	5587	1111	955	
	5588	1110	937	
Dup 5586 Except 21 Hole 005 Spiral Goes to Holland - To Hot 21½ 5-17	5589	1022	842	
	5590	1030	862	
	5591	1035	892	
RA707 Smooth 5449 5-29 Rep 1/2 wash filling 3 rod heat 26 X 30 005 Rep pk 33% To Hot then H Holland 21 Rep	5592			
	5593	No H OH Diff		
	5594			
Dup 5592 Except 21 Hole 005 Spiral Holland then To Hot 21 Rep	5595	No H OH Diff		
	5596			
	5597			

Holland

Take these cells pour out liquid where 3 new Ni tubes put in & Run in 33½ again to see if 33% has not recovered anything bad.

all sperm

RA707 ½ round nut (letters) dried Low heat same as 5473 26x30 005 sperm 4 Rings Reg PK Holland Also 50 Hot H – 21 Reg 2.04 5.37	5598	1181	1080
	5599	1165	1075
	5600	1155	900
Reg 5598 21 Hole 005 4 rings Holland 50 round Hot 21 Reg 2.04 5.40	5601	1175	9.
	5602	1182	
	5603	1166	
RA707 ½ round nut (letters) dried High heat 26x30 005 4 rings sperm 78 pack – Holland 50 hot H. 21 – 2.03 5.24	5604	1052	842
	5605	1082	867
	000	—	
Reg 5604 except 21 Hole 005 sperm Holland etc. 5.09	5606½	955	825
	000	X	
	000		
RA707 Reg round nut (letters) dried Low heat same – 5467 26x30 005 Reg PK sperm 4 Rings Holland etc 4.71	5609	985	967
	5610	965	950
	5611	972	922
Reg 5609 except 21 Hole 005 Holland etc 4.46	5612	968	
	5613	942	
	5614	975	
RA707 Reg Number Washer not lettered dried high heat same – 5473 – 26x30 005 sperm Reg PK Holland etc 4.60	5615	987	
	5616	986	
	5617	1008	
RA707 Same as used on 5479 – 26x30 005 sperm Holland etc 4.61	5618	935	
	5619	930	
	5620	927	

Holland

all Spiral Tubes

		Cod 50	
Ra 707 same as used in 5485 26x30 .005 spiral - Holland 26 4.65	5621	910	
	5622	928	
	5623	892	
Ra 707 same as used in 5497 26x30 .005 Holland 26 5.69 50 Hrs	5624	977	
	5625	977	
	5626	1011	
21 Hole .005 1½ Spiral 4 Rings Nut 10 .001 Rod Hole Reg pk 24 g - Hole 62 21% 4.68	5627	992	830
	5628	1000	860
	5629	975	812
21 Hole .005 1½ Spiral 5 Rings - 10 Nut .001 Hole 62 Reg pk - 21% 4.67	5630	950	845
	5631	1015	865
	5632	1016	897
Rings 5630 Except 21 Hole 0635 — 4 Rings Hole 62 21% 4.78	5633	990	917
	5634	1011	930
	5635	982	897
21 Hole .005 1½ Spiral Reg pk 5 Rings 10 Nut 24 g - Run 339/8 Hole 63 4.66	5636	1150	740
	5637	1142	757
	5638	1145	740
Rings 5636 1½ Spiral 4 Rings Run 24 Nut 10 g RCP Hole 63 4.70	5639	1020	982
	5640	975	927
	5641	922	800
21 Hole .005 1½ Spiral 20 Nut Hole 48 Reg 9 g 4 Rings 3.09 4.49	5642	935	880
	5643	943	870
	5644	942	880

Holland

* This gives higher runs running hot than others

21 Hole .005 1½ spiral	5645	882	800		
30 mf flake 72 Reg	5646	866	790		
4 rings 4.00	5647	885	795		
2.19					
21 Hole .005 1½ spiral	5648	862	797		
40 mf flake 96 Reg	5649	870	980		
4 rings	5650	863	820		
2.22 3.89					
21 Hole .005 1½ spiral	5651	950	910		
Hard Rubber Stationary	5652	962	962		
4 Rings 3½ wt *	5653	980	987		
2.09 4.60					
Dup of 5651	5654	991	957		
Except 100 mf flour	5655	983	942		
of Sulphur 4.70	5656	996	930		
2.10					
21 Hole .005 1½ spiral	5657	1020	980		
10 W 24 green 4 rings	5658	1005	952		
4 lb cot	5659	988	952		
2.09 4.84					
Dup of 5657	5660	1047	1000		
2.11 4½ lb cot	5661	1050	985		
4.95	5662	1043	1010		
Dup 5657 5.01	5663	1057	1007		
2.11 5 lb cot	5664	1048	995		
	5665	1056	1000		
21 Hole .005 1½ spiral	5666	982	895		
20 mf 48 green Reg	5667	877	810		
2.14 4 lbs 4.09	5668	968	895		

Dup 5666 4.69	5669	991	940
4 1/2 weight	5670	987	912
2.13	5671	1021	945
Dup 5666	5672	995	915
5 lb coat	5673	1027	912
2.19 4.64	5674	1030	927
21 Hole .005 1/2 spiral	5675	890	770
30 in holes 72 Ring from	5676	938	820
4 lb coat 2.25 4.05	5677	933	833
Dup 5675	5678	932	845
Except, 4 1/2 lb coat	5679	932	887
2.25 4.13	5680	922	850
Dup 5675	5681	980	880
5 lb. coat 4.22	5682	995	892
2.31	5683	997	875
21 Hole .005 1/2 spiral	5684	877	797
4 Rings 40 holes in	5685	910	800
96 Ring from 4 lbs	5686	867	782
2.23 3.96			
Dup 5684	5687	922	845
2.26 4 1/2 lbs 4.05	5688	900	797
	5689	920	822
Dup 5684	5690	947	857
2.26 5 lbs 4.13	5691	927	812
	5692	937	855

21 Hole 005 1½ spiral 20 ni flake same by mass PROJ 3455 5/min [illegible] dry 2.53 4 lbs 5.22	5693	1159	1032
	5694	1155	1000
	5695	1187	980
Decp 5693 5.31 2.26 4½ lbs	5696	1207	1012
	5697	1197	1035
	5698	1195	1032
Decp 5693 5.35 2.22 5 lbs	5699	1177	970
	5700	1191	992
	5701	1205	967
	5702		
21 Hole 005 1½ spiral 4 rings 10 in 24 Reg g Single Temp fine coarse Temp 2.29 4.32	5703	1000	932
	5704	980	920
	5705	990	920
Decp of 5703 Single Temp 20 ni flake 48 Reg 7 mm 4 lbs wt 2.07 7 mm 45 sec 4.03	5706	830	765
	5707	850	770
	5708	832	775
Decp 5703 Single Temp 40 of 96 Reg g 5 lbs wt. 2.1 [illegible] 3.73	5709	785	750
	5710	797	717
	5711	807	740
21 Hole 005 1½ spiral 10 ni flake 24 Reg 4 rings 7 mm 33% wet 100 wet g 5 spheres 4.71	5712		750
	5713		800
	5714		747
21 Hole 005 1½ spiral 10 ni of 24 Reg g 21% 200 wet g flow Sep 4.63	5715		930
	5716		907
	5716		937

5715

Long 4" Intro. 1½ spiral 21 Hold 005 6 rings Reg 7 mm flake 68 put up with 4 rings - 24 grain 10 flake next spring [illegible] 6.9 flake [illegible] 1.90 7.12	5717	1314
	5718	1356
	5719	1325
	5720	1384
	5721	1372
	5722	1356
	5723	1336
Decp of 5717 Except grain 20 ni wash filled dried low heat Reg 709 - 7.80 [illegible] 68 flake 10 in 24 1.81	5724	1483
	5725	1447
	5726	1390
	5727	1380
	5728	1373
	5729	1400
	5730	1443
Decp 5717 Except ½ wash not filled dried low heat 1.91 68 flake 7.71	5731	1510
	5732	1443
	5733	1460
	5734	1447
	5735	1390
	5736	1437
	5737	1443

Last No. in Walker book
5737 –

2 Hole 005" 1/2 spiral 3 = Cl bot 10 mi 1/2 Ag Rg 4 grm 4 grm 33% KOH 100 mlg flow Sulphur 4.08	5775	1220	777		1280	642
	5776	1095	727		1280	622
	5777	1145	727		1290	620
Dup 5775 33% of 250 mlg flow Sulphur 4.08	5778	1107	460		1080	710
	5779	1110	700		1160	755
	5780	1095	727		1335	775
Dup 5775 33% of 500 mlg flow Sulphur 4.08	5781	95 500	0		1210	815
	5782	500 mm	0		900	830
	5783	400 537	725		1140	880
Dup 5775 33% of 500 mlg Cinnabar 4.08	5784	1142	740		980	697
	5785	1177	900		1275	825
	5786	1172	870		790	692
Dup 5775 33% of 500 mlg Metallic Arsenic 4.08	5787	1172	872		1275	680
	5788	1145	870		1250	710
	5789	1205	937		1300	792
Dup 5775 33% of 500 mlg of old Brimstone 4.08	5790	0 537	725		1275	845
	5791	180 537	780		1200	820
	5792	0.0	722		900	837
Dup 5775 33% of 500 mlg AgO 5.09	5793	1097	790		1355	670
	5794	1135	697		1340	665
	5795	1200	767		1215	647
Dup 5775 33% 500 mlg Sulphide Calcium 4.08	5796	1150	617		770	717
	5797	1167	635		895	750
	5798	1112	577		1255	712

Co

Co

Co

Ni removed against strip with hot KOH — ~~[illegible]~~ strip restored & Nickel dissolved 1½ times —

33% KOH

Original Run in

Run put up with Nickel and Nickel put with Run in Those Runs

21% of Run put with Nickel

old Run with new Ni | old Ni with new Run

Those Runs in 21% KOH –

we get Results

5819 went 1112 on 2nd run?

				Dont seem hard at much if any			Old 7 mins	Old'n mins 7s.	
Dup 5775									
33% of 500 mlg	5799	772 210					1390	825	
Sulphide Antimony	5800	850 1000			Co		1345	800	
4.48	5801	750 900					1390	795	
Dup 5775	5802	1150	837	317					
33% of 500 mlg	5803	1137	900	335	Co				
Selenium — 1.68	5804	1142	997	340					
green 6 gram a on head	5805	1017		850					
1 in Hot 33% for 1 month or when ground	5806	1026		897					
2 ries in under water									
21 Hole 1/2 spiral — 4.34	5807	1007		850					
33% with 40 grms Na2	5808								
4 gms pict on Hot Tank		Put on Tank 8							
1 month 1 till 7 mlm	5809					250 R		300	
21 Hole .005" 1/2 spiral	5810	917 x	890	813	767	837		830	
Under pressure 7 mlm	5811	937	887	798	723	750		740	
30 days Hot 33%								780	
Then run on 21/.471	5812	892	872	790	767	797			
21 Hole .005" 1/2 spiral	5813	1067	687						
3 3/4 wet 1/2 week wet									
filtering 3 ries Bowl heat	5814	1042	650						
48 gm 10 m flake by review									
Run — 37% Na off	5815	1085	650						
Dup Run 1 25 Na off	5816	1120	870						
+ 2 gms Li Thio Hydrox									
Each cell	5817	850 *	845						
5.29	5818	1000	825						
Dup 23% Na off	5819	1297	1042						
2 gms Li off	5820	1275	1000						
2.5 5.15	5821	1287	1042						

* 5822 average Voltage 1.197
5840 average Voltage 1.2[illegible]

Dup 21% NaOH, 2 grms Li OH,	5822	1290	1272		
	5823	1305	1272		
Flow 4 2.51 5.13	5824	1277	1247	3	3791 / 1264
Dup 19% NaOH 2 grms Lithium OH	5825	1270	1300		
	5826	1252	1310		
Flow 4 2.50 5.07	5827	1280	1310	3	3920 / 1306
Dup 17% NaOH 2 grms Li OH	5828	1272	1247		
	5829	1282	1247		
2.49 5.12	5830	1247	1270	3	3764 / 1255
Dup 15% NaOH, 2 grms Li OH,	5831	1185	1192		
	5832	1227	1292		
2.49 5.105	5833	1217	1247	3	3731 / 1244
Dup 13% NaOH 2 grms Li OH,	5834	1217	1190		
	5835	1227	1190		
2.51 5.15	5836	1215	1190	3	3670 / 1190
Dup 11% NaOH, 2 grms Li OH,	5837	1172	1130		
	5838	1200	1112		
2.52 5.14	5839	1207	1127	3	3369 / 1123
Dup 9% NaOH, 2 grms Li OH,	5840	1187	1115		
	5841	1185	1087		
2.51 5.11	5842	1180	1115	3	3317 / 1106
Dup [illegible]					
2 [illegible]					

50

21 Hole 005 1½ Spin 4 yrs 3½ wet 10 m 24 grown 1½ equal not fitted 2.18 long 2.60 Run — 27% Roll 2 grm 2.64, 5.18	5846	1337	1375		
	5847	1337	1345		
	5848	1377	1365		
Dup 25% Roll, 2 grm d. 04 — 2.53 5.20	5849	1307	1302		
	5850	1320	1325		
	5851	1320	1322		
Dup 23% Roll, 2 grm d. 04, 2.57 5.23	5852	1260	1297		
	5853	1227	1252		
	5854	1232	1275		
Dup 21% Roll, 2 grm d. 04, 2.24 5.22	5855	1192	1232		
	5856	1187	1212		
	5857	1192	1220		
Dup 19% Roll, 2 grm d. 04, 2.24 5.24	5858	1170	1210		
	5859	1180	1180		
	5860	1180	1247		
Dup 17% Roll, 2 grm d. 04, 2.24 5.15	5861	1167	1187		
	5862	1157	1187		
	5863	1150	1175		
Dup 15% Roll, 2 grm d. 04, 2.22 5.18	5864	1142	1127		
	5865	1160	1147		
	5866	1157	1142		
Dup 13% Roll 2 grm d. 04, 2.22 5.09	5867	1180	1182		
	5868	1162	1150		
	5869	1180	1150		

3/3664/1221

3/3635/1212

3/3549/1183

3/3416/1139

3/3549/1183

3/3492/1161

3/524/175

3/3949/1316

3/3824/1275

3/3664/1221

3/3637/1212

3/3416/1139

flask(67) used
1 lbs grms

Holland 5876 26
changed to 2 7.7 g
4 7.7 gms
1.11 mm

Dup 11% KOH	5870	1140	1135
2 grms LiOH –	5871	1180	1112
2.21 5.22	5872	1157	1140
Dup 9% KOH,	5873	1097	1125
2 grms LiOH –	5874	1120	1100
2.11 5.29	5875	1130	1100
Dup 5876 – 27% NaOH.	5876	1080	
for Holland	5877	1125	
2.27 5.34	5878	1117	
25 NaOH	5879	1165	
Holland	5880	1147	
5.26	5881	1180	
23% NaOH	5882	1130	
Holland	5883	1180	
5.33	5884	1182	
21% NaOH	5885	1082	
Holland – 5.38	5886	1122	
	5887	1120	
19% NaOH	5888	1162	
Holland 5.40	5889	1150	
	5890	1150	
	5891	1135	
17% NaOH	5892	1185	
5.33 Holland	5893	1147	

9/3389/1129

9/3325/1108

3/3387/1129

		Cu	50		
15% NaOH	5894	1170			
Holland 5.39	5895	1212			
	5896	1155			
13% NaOH	5897	1170			
Holland 5.33	5898	1175			
	5899	1187			
21 Hole 005 1½ spiral	5900				
3½ lb cut 4 rings					
21% - 10 m ft 24 Rep green	5901				
2 grms formate Kzaluc cell	5902				
Dup 5900	5903				
Except	5904				
2 grms Hypophosphite					
Dup in cell	5905				
21 Hole 005 1½ spiral	5906	1075	780		
3½ lb cut 4 rings on body					
Before running on body	5907	1075	987		
Average the tube against					
Counter 3 hours at 4.65	5908	1067	940		
minutes					
21 Hole 005 1½ spiral 4 rings	5909	1150	1020		
3½ cut - ½ cut					
7% ½ cut weak not filled	5910	1182	1065		
10 Cobalt 24 green					
2.17 Run Rep 5.40	5911	1180	1070		
21 Hole 005 1½ spiral -	5912	1235	1155		
2½ lb cut 24 rings 5.01					
5% flake ½ thickness 5.01	5913	1215	1125		
24 grms ½ cut weak not filled					
Dup 5912 5.09	5914	1245	1162		
but 4 lb cut	5915	1230			
2.45	5916	1250			
	5917	1267			

So far Gestcell will 62
21 Hole 005 4½ lb cut for long tubes
6 rings Thin flake ½ thickness Bichromate Cell
Crumpled - 24 green ½ w not f. thin heat
thru 20 - better feed, 15% NaOH 2 ohms +
2% dilth, ought get 2.75 mil amp hours
per gram green and 7,800 grms
long tubes or 2,145 mil amp in long
charge -
H Meyers Fla April 13 1907

2.75 a/5
2.46

Cent do above yet
H Meyers Feb 20 1908

Looks as if ½ thickness flake
Cent shows the particles + make a better
Contact 1/4 thickness 1/4 weight
ought to 62 better -
½ flake 100 rms cent lose Capacity

Dup 5915 Except 4 ½ lb cut 5.18 7.34	5918	1250	
	5919	1217	
	5920	1232	
Dup 5915 Except 5 lb cut 5.21 7.37	5921	1247	
	5922	1257	
	5923	1202	
21 Hole 005 1 ½ spiral 10 m Rocks 24 ½ minutes not filled 4 Rings 3 ½ lbs 5.16 10 grams KCP Eucalyptus	5924	1192	1025
	5925	1230	1085
	5926	1232	1035
Dup 4 lb cut KCP 5.16	5927	1205	1085
	5928	1215	1060
	5929	1195	1125
21 Hole 005 1 ½ spiral 3 ½ cut 4 rings 10 m 24 Rocks but not quite full after 8 the time — 4.61	5930	1145	
	5931	1170	
	5932	1147	
21 Hole 005 1 ½ 3 ½ 4 rings Rocks 24 7 — Nickel Strip Changed reverse all the time 40 50 Hot — 4.55	5933	0	
	5934	2	
	5935	1	
Dup 5933 but reversed with 3455 Rocks 24 after Hot Reverse Continuous 40 50 Hot 4.65	5936	1100	
Dup 5933 but reversed with 3455 Rocks 24 3476 - when Hot 4.65 Reverse Continuous	5937	1140	912

5921 group changed Cofl + put on hot test no current for 12 min

	44	1072	1022
	45	1037	617
	46	926	811
			803

5.10
OK
50 240 OK

Chg 6½ h Cofl dirty Hot 180 ma

	½ V	1 V
5909	766	741
10	769	756
11	810	777
12	999	993
13	997	975
14	989	972

Chg 6½ h Hot dirty Cofl 150 ma

	½ V	1 V
5909	495	452
10	512	479
11	522	487
12	642	632
13	647	630
14	636	623

Cobalt flake

Nickel flake

This shows chg hot is good + Co flake is much worse than Ni flake

both groups same except flake

Co flake group time must green

Why does flake make diff

(why flake attacks) + more so in Cone Co.

21 Hole 005 1½ spiral 3½ lbs 4 turns Reg spoon 21% Calcium 250 mil/gal 4.49	5938	1117	962
	5939	1135	977
	5940	1120	645
21 Hole 005 1 2 spirals 3½ 4 turns on Rimrock band 5 turns Ann measure Bentonite 80 Kgal w/ 19% KOH wt 4.6	5941	1097	
	5942	1110	
	5943	1120	
Dup 5941 Except use 17% KOH	5944	1065	
	5945	1072	
	5946	1090	
Dup 5941 Except use 15% KOH, 4.60	5947	1067	
	5948	1065	
	5949	1050	
Dup 5944 4.64 Except use 17% NaOH wt	5950	1120	
	5951	1115	
	5952	1092	
Dup 5941 Except 15% wt NaOH 4.62	5953	1075	
	5954	1050	
	5955	1072	
Dup 5941 Except use 13% wt NaOH, 4.61	5956	1012	
	5957	1020	
	5958	1022	
21 Hole 005 1 2 spiral 3½ weight 4 turns on Hole Cut 80 Kgal dry Bentonite not stirred Consistent. Pulling 15 mark	5959		
	5960		
	5961		

		50	100
Dup of 5959 Except flake 100/1000 wide	5962		
	5963		
	5964		
Dup 5959 Except flake 120/1000 wide.	5965		
	5966		
	5967		
21 Hole .005. 1½ spiral 3½ wet 4 Rin 1/2 week not fit flow heat under bell jar with water 48 Hours 5.19 60/100	5968	950	777
	5969	997	846
	5970	967	740
21 Hole .005 1½ spiral 3½ wet 4 Rin 10 flake cut 60/1000 wide 1/2 week not fallen flow heat 24 hrs 4.93	5971	1122
	5972	1127
	5973	1142
Dup of 5971 Except the groove through 60 week. 5.19 immediately 5.19	5974	1155
	5975	1130
	5976	1157
Dup 5971 5.14 Except groove through 100 week. 5.19	5977	1100
	5978	1132
	5979	1107
RA 710. Mass action groove 1½ spiral .005 4 rin 3½ 21 Hole 2.53 4.53	5980	1062
	5981	1062
	5982	1040
21 Hole .005 1½ 3½ wet 4 Rin 4.53 Coat by rolling 1/2 week Ni flake not RA 710 to wet.	5983	1155
	5984	
	5985	

Ralph Ni Mass action is 850° 710 groove of Ni mass
Flake fell and wet higher [illegible] heat

Holland's test on 5971-2-3

14 hour chg 300 dis 150 (4 days 5th run)

5972	charged 135° dis normal	7775	1127
5971	" Normal dis 135°	1176	1122
5973	" 4 dis normal.	1120	1142

average dis voltage 5971 about .10 above 5972
" 5973 " .8 " "

chgd 14 h 300 dis 150

5973 when chgd + dis hot gave 1050.
5971+2 chgd + dis normal 1100

5971 chg hot 135° deg 5 hours 200 ma dis 150 dis normal 6.00
5972 Chgd normal dis hot 8.25
5973 chgd + dis normal 7.85

A 5 gram oz giving 1450 chgd + dis normal
chgd 15 h 400 dis 300.
Same wire chgd + dis hot 110° Volts gave
2550 to Volt

The wire has a dip at when it falls off normal

There is certainly something here good for Electrolytic Thermo

21 Hole 005 3½ wt 4 rm	5986		652	493	
24 Reg grafite Mix	5987		655	444	
7 ni flake - 1½ spiral			622	443	
5.47 prim	5988				
21 Hole 005 - 1½ spiral 3½ wt 4 rm	5989	1300			
½ wood not flaked	5990	1187			
dried Low bon 5.08					
Range pushed on hand	5991	1150			
60/min Fort Hollywood					
21 Hole 005 1½ spiral 4 rm 3½ wt	5992	1162			
½ wood not flaked	5993	1157			
dried Low 4.96					
21% KOH 2 grm Cont	5994	1145			
60/min Ethis Ethicell					
Dup 5992 Holland	5995	1125			
17% KOH	5996	1120			
2 grms LiOH					
4.97 Each cell 60/min	5997	1120			
Dup 5992 Holland	5998	1100			
13% KOH 60/min	5999	1115			
2 grms LiOH					
4.96 Each cell 60/min	6000	1100			
Dup 5992 Holland	6001	1137			
Except 21% NaOH	6002	1110			
5.08 2 grms LiOH					
Each 60/min	6003	1125			
Dup 5992 Holland	6004	1077			
17% NaOH	6005	1162			
60/min 5.08 2 grms LiOH	6006	1175			
Dup 5992 Hole	6007	1135			
13% NaOH	6008	1150			
4.96 2 grms LiOH	6009	1135			

Nove 4 pump the column

21 Hole 005 1½ spiral 3½ wt 4 rings ½ wash not filled slightly green	6010	1145
	6011	1127
Thru 30 mesh 5.03	6012	1137
70 fects		
Dup 6010 green thru 40 mesh	6013	1070
	6014	1112
70 fects 4.98	6015	1047
Dup 6010 green thru 50 mesh	6016	1135
	6017	1112
70 fects 5.06	6018	1142
Dup 6010 green thru 60	6019	1107
	6020	1112
70 fects 5.05	6021	1120
Dup 6010 green thru 80 4 lb wt	6022	1097
	6023	1095
70 fects 4.98	6024	1117
Dup 6010 green thru 100 4 lb wt	6025	1140
	6026	1140
70 fects 4.89	6027	1180
Dup 6010 to green thru 180 5 lb wt	6028	wonderful test
	6029	actually broke up
	6030	No chlor wonderful drop out Sh.
Dup 6010 with green thru 20 mesh 4 lb wt	6031	1145
	6032	1177
70 fects 4.83	6033	1180

				Cold	50
Repack ni tubes 2 degummed 1 iron RA 871 sec ff 5% H2O	A	6010	1130	1250	
	A	6011			
	A	6012	1230	1160	
Dup of 6010	A	6013			
Dup 6010 except RA No 871 non pyro 5% H2O	A	6014	1140	1100	
	A	6015			
Dup of 6014	A	6016	1150	1290	
	A	6017			

Dup 6010 green lum 20 4½ cut Tefloncin 4.93	6034	1170
	6035	1202
	6036	1202
Dup 6010 green lum 20 5 lb cut Tefloncin 5.10	6037	1185
	6038	1165
	6039	1215
Dup 6010 green lum 40 4 lb cut Tefloncin 5.05	6040	1125
	6041	1127
	6042	1130
Dup 6010 green lum 40 5.12 Tefloncin 4½ lb cut	6043	1177
	6044	1182
	6045	1167
Dup 6010 5.30 green lum 40 Tefloncin 5 lb cut	6046	1190
	6047	1175
	6048	1157
21 Hole 005 1/2 spray 3½ cut 4 mm — Short Line — 10 Nickel 24 green 1/2 mm only not filling holes [illegible] 21% 2 gram Caesium hydrate	6049	1149
	6050	1177
	6051	1162
Dup 6049 — 4.49 21% 2 gram Rubidium hydrate	6052	1150
	6053	1142
	6054	1147
Dup 6049 4.45 21% 2 gram Beryllium Hydroxide	6055	1100
	6056	1110
	6057	1123

Dont forget to Crimp flake strips to corrugate so bulk of flake will be twice or 3 times as great for same 10 oz gal. No green will distribute then at a stop so much layering — Tried oil to market —

Dup of 6049 Except 21% KOH saturated with KOH — 4.97	6058	1110
	6059	1090
	6060	1200
Dup of 6049 15% KOH Saturated with KOH. 5.10	6061	1125
	6062	1180
	6063	1070
21 Hole 205 (½ spiral 3½ not if you go — RQ 710 one wash not filtered dried high heat Mass action 5.11	6064	1155
	6065	1110
	6066	1105
Dup of 6064 - RQ 710 one wash filtered dried high heat, Mass action 4.67	6067	1122
	6068	1112
	6069	1095
Dup 6064 RQ 710 2 washes not filtered dried high heat, Mass action 4.51	6070	1082
	6071	1027
	6072	1085
Dup 6064 RQ 710 2 washes filtered dried low heat Mass action, 4.66	6073	1077
	6074	1092
	6075	1100
Dup 6064 RQ 710 one wash not filtered Dried low heat Mass action	6076	1125
	6077	1140
	6078	1135
Dup 6064 RQ 710, ½ wash filtered dried low heat Mass action —	6079	1090
	6080	1090
	6081	1065

Dup 6064 Ra 710 No wash filtered dried high heat Mass action - 471	6082 6083 6084	900 920 900
Dup 6064 Ra 710 1/2 wash not filtered dried low heat Mass action 494	6085 6086 6087	1075 1082 1110
Dup 6064 Ra 710 One wash filtered dried low heat Mass action 458	6088 6089 6090	1075 1090 1095
21 Hole 005 1 1/2 spring 3 3/4 cut 4 rump 1/2 wash not filtered dried low heat screened through 20 on 30 wash fines into 446	6091 6092 6093	1127 1140 1147
Dup of 6091 Rump (not screened) through 15 mesh on 30 mesh fines out Rump (pressed) on 445	6094 6095 6096	1137 1142 1152
21 Hole 005 1 1/2 spring 3 1/2 cut 4 rump flaked 1/4 thick 2 1/2 Hole 24 green 1/2 wash not low heat,	6097 6098 6099	
Dup 6097 4 lb cut,	6100 6101 6102	
21 Hole 005 1 1/2 spring 4 lb cut 4 Rump 1/2 cen not flush 5 flake 1/8 thick 24 g. 21 1/2 Hole 2 green 1.077 Rump (pressed) 451	6103 6104 6105	1122 1137 1115

Dup 6103 Pump forced on 4:51 15% NaOH 2 gpm LiOH 4:61	6106	1237
	6107	1232
	6108	1200
Dup 6103 Pump forced on 15% NaOH, 2 gpm LiOH 4:71	6109	1087
	6110	1022
	6111	1112
Dup 6103 Pump forced 10% NaOH 4:76 2 gpm LiOH	6112	1212
	6113	1247
	6114	1250
21 Hole 005 3½ 4 rings 1½ spiral RA 710 Mixing section 1/2 wash fulled Dried high heat 5:75 1st 24 ft	6115	1025
	6116	1027
	6117	1030
21 Hole 005 1½ spl 3½ 4 rings 10 fwg RA 710 1/2 w. not full Dried high heat Mixing section 5:07	6118	995
	6119	992
	6120	990
21 Hole 005 1½ spl 3½ 4R RA 710 mixing section 2 washes not fulled) Dried low heat 4:46	6121	1072
	6122	1075
	6123	1115
Dup 6121 RA 710 Mixing section No wash not fulled, Dried low heat 7 of Lin 5:04	6124	975
	6125	965
	6126	955
Long tube — 21 Hole 005 1½ spiral Hole big mixer 31.95 10 ft RA 709 -1/2 lb fulled low heat 7 of Lin 6:79	6127	1443
	6128	1449
	6129	1447

6137 – Start here on new filter

21 Hole 005" 1½ spiral 3½ wt 4 rings 24% of 21% KOH for Holland to test to be put with 2 chgd 72 4.60	6130 6131		
Dup 6127 Long tube – To filter 6171	6132 6133 6134	1417 1427 1427	
21 Hole 005" 1½ spiral 3½ wt 4 rings – ¼ wash not fit long heat. 10 tubes 4 prem New filter 21 KOH 2 gr NaOH. 1 gm aluminum	6137 6138 6139		
Dup 6137 15% NaOH, 2 LiOH. 1 gm aluminum new filter	6140 6141 6142		
Dup 6137 21% KOH, 2 LiOH. 500 mg Aluminum new filter	6143 6144 6145		
Dup 6137 15% NaOH. 2 LiOH. 500 mg Aluminum new filter	6146 6147 6148		
Dup 6137 21% KOH. 2 LiOH. 1 gm Iodide Pot new filter –	6149 6150 6151		

Hot plate, 3.2 gms Reg graphite mix 21% KOH, 2 gms LiOH.	6152 6153 6154 6155 6156		
Dup 6152 15% NaOH. 2 LiOH.	6157 6158 6159 6160 6161		
Dup 6152 21% KOH. 2 LiOH. 1 gms Aluminum	6162 6163 6164 6165 6166	mg	Co
Dup 6152 15% NaOH. 2 LiOH. 1 gms Aluminum	6167 6168 6169 6170 6171	mg.	Co
Dup 6152 21% KOH. 2 LiOH. 250 mg Aluminum	6172 6173 6174 6175 6176	mg	Co

Dup 6152	6177		
15% NaOH.	6178		
2 LiOH	6179	M	Co
250 mlg Aluminum	6180		
	6181		
Dup 6152	6182		
21% KOH	6183	M	Co
2 LiOH.	6184		
1 gram Iodide Potass	6185		
	6186		
21 Kolo 005 1/2 spirals 3/2 wt 4 rings 1/2 wt 2 rings 1/2 wt 2 rings Dup 21% KOH.	6187		
	6188		
5 grams Oxide Mercury precipitated	6189		
Dup 6187	6190		
15% NaOH.	6191		
5 grams Oxide of Mercury precipitated	6192		
Dup 6187	6193		
21% 5 grams Oxide Mercury precipitated	6194		
2 grams LiOH.	6195		
Dup 6187	6196		
15% NaOH, 2 LiOH	6197		
5 grams Oxide Mercury precipitated	6198		
Dup 6187	6199		
21% KOH. 3 grams Barium Hydroxide	6200		
	6201		

Dep 6187	6202
21% KOH,	6203
2 grms LiOH.	
3 grms Ferrous Hydroxide	6204
21 Hole 005 1½ spiral 3½ wt 4 Flow 10 ft/min 2 mesh not filled 24 grams 10 strike —	6205
No 1 position on filled	6206
	6207
Dup 6205	6208
No 2 position non filled	6209
(fed)	6210
Dup 6205	6211
No 3 position of (fed)	6212
	6213
Dup 6205	6214
No 4 position of (fed)	6215
	6216
Dup 6205	6217
No 5 position of fed)	6218
	6219
21 Hole 005 1½ spiral 3½ wt 4 Flow 10 ft 24 No 2 grams —	6220
21% KOH 3 grms	6221
Acetone Each cell	6222
Dup 6220	6223
21% KOH, 3 grms Acetone	6224
No 2 grms LiOH	
Each cell.	6225

Herzaffen 1/5 wash not full dried low heat
will be called No 2 grms

Dup of 6220 -	6226	
15% NaOH, 2 grms	6227	
di OH, 3 grms		
Acetone Etch cell	6228	
Dup 6220	6229	
15% NaOH, 3 grms	6230	
Acetone Etch cell	6231	
Dup 6220	6232	
21% KOH, 3 grms	6233	
formalin Polish		
Etch cell -	6234	
Dup 6220	6235	
21% KOH, 2 grms di OH	6236	
3 grms formalin Polish	6237	
Etch cell		
Dup 6220	6238	
21% KOH, 3 grms	6239	
Ammonium	6240	
Etch		
Dup 6220	6241	
21% KOH, 3 grms di OH	6242	
Antimonic 2 grms	6243	
di OH		
[illegible]	6244	
[illegible]	6245	
[illegible]	6246	
[illegible]	6247	
21% KOH	6248	
Con[illegible]	6249	

Dup ~~6220~~ 6220 21% KOH. 3 grms Acetamide	6250 6251 6252		
21 Hole .005 1½ spiral 3½ 4 rings Nos 2 green packer Nos 2 green — 10% KOH, 7½% NaOH. 2.5% LiOH. 10 ft 24 gram	6253 6254 6255		
No 5975-64-71 with new Nickel ½ L wet fil line heat Ring gram — 33% KOH to acc 4 ft 33 hours remove and thoroughly end	6256 6257 6258		
21 Hole .005 1½ Spiral 3½ hot 4 Rings — No 2 green 24 ft 10 ft 2 Tubes one Ring wet flow 5 grms 21% KOH.	6259 6260 6261		
Dup 6259. 21% KOH 2 grms LiOH. Each cell	6262 6263 6264		
Dup 6259 15% NaOH, 2 grms LiOH Each cell-	6265 6266 6267		
Dup 6259. 15% NaOH, 3 grms LiOH — Each cell	6268 6269 6270		
Dup 6259. 15% NaOH. 3 grms Bromide Potassium Each cell	6271 6272 6273		
~~Dup~~			

Dup 6259 – 15% NaOH. 3 grms Chloride Potassium Zinc cell	6274		
	6275		
	6276		
Dup 6259 15% NaOH, 3 grms Bromide Sodium Zinc cell –	6277		
	6278		
	6279		
Dup 6259 15% NaOH. 3 grms Chloride Sodium Zinc cell	6280		
	6281		
	6282		
Dup 6259 21% KOH. 3 grms Bromide Potassium Zinc cell	6283		
	6284		
	6285		
Dup 6259 21% KOH, 3 grms Chloride Potassium Zinc cell.	6286		
	6287		
	6288		
Dup 6259 21% KOH, 3 grms Bromide Sodium Zinc cell	6289		
	6290		
	6291		
Dup 6259 21% KOH, 3 grms Chloride Sodium Zinc cell –	6292		
	6293		
	6294		
Dup 6259 21% KOH. 3 grms Chlorate Potassium	6295		
	6296		
	6297		

Dup 6259 21% KOH. 3 grms Chlorate Sodium	6298 6299 6300	
Dup 6259 15% NaOH. 3 grms Chlorate Potash	6301 6302 6303	
Dup 6259 15% NaOH. 3 grms Chlorate Sodium	6304 6305 6306	
Dup 6259 21% KOH. 300 milligrms Bromatone 2 grms LiOH =	6307 6308 6309	
Dup 6259 15% NaOH. 300 milg Bromatone 2 grms LiOH.	6310 6311 6312	
Dup 6259 21% KOH. 3 grms Fluoride Potassium	6313 6314 6315	
Dup 6259 15% NaOH. 3 grms Fluoride Sodium	6316 6317 6318	
Dup 6259 21% KOH 3 grms Borax	6319 6320 6321	

Dep 6259 15% NaOH. 3 grms Borax	6322 6323 6324		
Dep 6259 21% KOH. 3 grms Nitrate Palladi	6325 6326 6327		
Dep 6259 21% KOH, 3 grms Nitrate Soda	6328 6329 6330		
Dep 6259 15% NaOH. 3 grms Nitrate Potash	6331 6332 6333		
Dep 6259 15% NaOH, 3 grms Nitrate Soda	6334 6335 6336		
Dep 6259 21% KOH, 3 grms Meta Stannate Soda	6337 6338 6339		
Dep 6259 15% NaOH, 3 grms Meta Stannate Soda	6340 6341 6342		
Dep 6259 21% KOH, 3 grms Chloride Lithium	6343 6344 6345		

Dup 6259 15% NaOH, 3 gr Chloride Lithium	6346		
	6347		
	6348		
Dup 6259 21% KOH. 3 grms Carbonate Potassh	6349		
	6350		
	6351		
Dup 6259 15% NaOH, 3 grms Carbonate Soda	6352		
	6353		
	6354		
Dup 6259 21% KOH, 3 grms Carbonate Potassh 2 grms LiOH,	6355		
	6356		
	6357		
Dup 6259 15% NaOH, 3 grms Carbonate Soda 2 grms LiOH,	6358		
	6359		
	6360		
Dup 6259 21% KOH, 3 grms Chloride Zinc	6361		
	6362		
	6363		
Dup 6259 15% NaOH, 3 grms Chloride Zinc	6364		
	6365		
	6366		
Dup 6259 21% KOH, 3 grms Chloride Manganese manganous	6367		
	6368		
	6369		

Dup 6259	6370
15% NaOH, 3 grms	6371
Manganous Chloride	6372
Dup 6259	6373
21% KOH, 3 grms	6374
Nitrate Lead	6375
Dup 6259	6376
15% NaOH, 3 grms	6377
Nitrate Lead	6378
21 Hole 005 1½ spirol 3½ wire No 2 gr 12 + 24 green 21% KOH	6379
	6380
	6381
Dup 6379	6382
14 holes 24 green	6383
21% KOH	6384
Dup 6379 — Zdium stock in Bismuth ammonical in Old ammonia — 21% KOH	6385
	6386
	6387
21 Hole 005 1½ spl 3½ wir 14 rings 10 of 24 No 2 green 2 gr green under observer for 1 each with water — 21% KOH	6388
	6389
	6390
21 Hole 005 1½ spirol — 10 of 24 No 2 green 12% NaOH, 3 grms	6391
	6392
LiOH 2 mch cell	6393

Dup 6391 10% NaOH. 3 grms LiOH	6394 6395 6396	
Dup 6391 8% NaOH, Saturated with LiOH	6397 6398 6399	
Dup 6391 5% NaOH Saturated with LiOH	6400 6401 6402	
Dup 6391 3% NaOH, Saturated LiOH..	6403 6404 6405	
Duplicate 6391 13% NaOH, 5 grms Thallious Hydroxide	6406 6407 6408	
Dup 6391 13% NaOH, 2 grms Thallious Hydroxide	6409 6410 6411	
Dup 6391 21% NaOH. 2 grms Thallious hydroxide	6412 6413 6414	
Dup 6391 Saturated Solution LiOH,	6415 6416 6417	

Phono Works Truck No 1

Cell No	% KOH	% K_2CO_3	% KCl	% K_2SO_4	
8193	8.47%	2.27	.06	.04	Truck 1 E 18 Cells
8198	9.10	2.49	.04	.05	one year in use
8199	9.09	2.50	.05	.06	
6921	12.98	1.14	.10	.04	Truck No 2
6954	16.06	1.37	.06	.06	Cells removed from Sloan's truck been running about 2 months in Phono Works
6940	13.87	1.28	.05	.05	
9990	15.66	1.49	.04	.06	Truck No 3
10018	14.12	2.04	.07	.06	July 18 1906
9965	14.41	1.72	.06	.06	
	average				
	8.88	2.42			Truck 1
	14.28	1.26			" 2
	14.73	1.75			" 3

No 3 Truck 6 months lost 6.59% of the 21— or 1 unit of KOH per month, & gained to of 1 part K_2CO_3 per month

		1	2	3	4
50 Fe 50 Cu Red v Selfh. Ra 706 no Hg 5 g	2643	1100	845	665	117
	2644	1100	825	665	108
	2645	1095	800	645	109
75% Fe 25% Bi 5 g 70% RQ - Red H. Selfh	2666	1860	1462	1760	1493
	2667	1740	1380	1640	1262
50% Fe 50% Bi. Ra 709 Red by H Self H. 5 g	2668	1100	1200	1260	1067
	2669	1080	1200	1260	1071
60 Fe 40 Cu Red Hyd. 5% Hgo. Selfh. 5 g	2670	870	1290	1290	983
	2671	860	1400	1400	1000
30 Cu 70 Fe Red by H. Selfh. 5% Hgo 5 g	2672	1170	1055	1080	1000
	2673	1140	1055	1070	958
80 Fe 20 Cu 5% Hgo	2720	1165	1170	1060	1127
	2721	1140	1170	1100	1083
40 Fe 60 Cu Ra 724 5% Hgo	2722	995	1145	1200	817
	2723	837	1025	1100	800
40 Fe 60 Cu No Hg Ra 720	2724	900	1000	1000	721
	2725	970	1070	1100	795
Reg Fe 15% Hgo - 5 g	2726	1337	1200	1445	1167
	2727	1300	1165	1370	1167
Reg Fe 20% Hgo 5 g	2728	1310	1145	1355	1150
	2729	1332	1090	1322	1062
Reg Fe 25% Hgo 5 g	2730	1225	1085	1300	1075
	2731	1242	1140	1350	1117
Reg Fe 40% Hgo 5 g	2732	720	875	1100	917
	2733	792	980	1100	917

Iron —

5	6	7	8	Pergram Fe	9 mm inch	Amp Eff	Watts
92	84	735					
96	84	732	Co				
94	92	732					
1392	1348	1400	1837	475	356		
1183	1125	1387	1725				
1000	992	1292	1300	520	260		
1053	993	1255	1300				
842	821	1270	1300	440	264		
833	833	1377	1340				
1210	1117	1325	1242	350	249		
1183	1100	1295	1250				
1050	1147	1392	1375	336	269		
1083	1167	1372	1317				
737	833	1072	1250	587	235		
704	783	1000	1100				
654	667	1100	1000				
733	833	1150	1200				
1000	Co						
942	Co						
987	Co						
987	Co						
983	Co						
983							
833	Co						
871	Co						

	1	2	3	4	5	6			Per gram Fe	1 gram Mat	Antiferro Mag	Weak Mag
5 gram Rx Fe 30% Hyo	2734	967	950	1130	917	833	Co					
	2735	1075	1050	1172	967	833	Co					
5 gr Rx Fe 50% Hyo	2736	470	795	925	767	607	Co					
	2737	490	795	957	754	771						
5 gr Ra 731 30% Cu 70% Fe Sec H 4% Hyo	2738	985	857	Co								
	2739	987	867	Co								
5 gr Ra 730 30 Cu 70 Fe 8% Hyo Sec H	2740	1000	847	C								
	2741	1005	855	C								
Rg - 12 5 gr	2742	520	480									
	2743	570	475									
Rg 27 70 Fe 30 Cu Red H Sec H 5% Hyo	2794	1367	1450	1485	1023	1033	1372	1395	1215	350	297	
	2795	1350	1480	1435	1027	1033	1372	1345	1255			
Rg 28 Red H Sec H 5% Hyo	2796	980	1075	1092	208	250	400	580	Co			
	2797	980	1100	1130	979	621	582	995				
Ra 741 60 Fe 40 Cu Red H, Sec H. 10% Hyo	2810	1100	1195	1200	996	1100	1325	1400	1350	446	269	
	2811	1092	1195	1192	1000	1105	1327	1400	1335			
Ra 742 70 Fe 30 Cu Red H Sec H 10% Hyo	2812	995	960	1000	898	1075	1100	1145	1060	300	210	
	2813	960	910	967	833	1000	1060	1100	1040			
Ra 739 - 40 Fe 60 Cu 10% Hyo - Red H Sec H	2814	960	1080	1080	934	1055	1160	1227	1175	612	245	
	2815	912	1082	1082	962	1055	1185	1270	1275			
Ra 740 50 Fe 50 Cu Red H, Sec H 10% Hyo	2816	1127	1200	1215	996	1165	1215	1270	1275	500	251	
	2817	1110	1200	1215	983	1045	1217	1285	1240			
Rg 5 - Fe 95 Cr 5% Hyo Ignition Oxide 5 gr	2827	1405	1400	1600	1492	1400	1470	1475	1530	348	513	
	2828	1400	1400	1665	1532	1400	1500	1600	1600			
Rg 36 10 Fe 90 Cr 5% Hyo Ignition Oxide 5 gr	2829	1537	1410	1640	1577	1417	1600	1567	1600		325	
	2830	1645	1482	1690	1579	1550	1590	1600	1655			

	1	2	3	4	5	6	7	8						
G 37 15%Bi 85% ignition oxalate Resist Sulph 5% Hgo 5 gr	2831	1145	1220	1037	1000	1058	1450	1432	1415					
	2832	1165	1240	1180	983	1054	1485	1420	1450					
G 38 20%Bi 80% ignition oxalate Resist Sulph 5% Hgo 5 gr	2833	1062	1185	SC	1467	1317	1600	1550	SC					
	2834	1050	1300	1227	1083	1292	1570	1557	1522					
DrG 38 - 20%Bi 80% non pyro 5% Hgo 5 gr	2869	1575	1300	1500	1217	1350	1400	1572	1572	1700	1700	418	334	
	2870	1600	1300	1485	1142	1342	1470	1500	1540	1675	1675			
DrG 40 DrG 80% 20 Tin non pyro 5% Hgo 5 gr	2881	1660	2185	2072	2175	1838	1800	2212	2055	2210	2090	494	393	
	2882	1595	1955	1787	1900	1920	1550	1900	1745	1780	1840			
DrG 45 - non pyro 5% Hgo 80% 20 Sb 5 gr	2883	1537	1437	1675	1442	1625	1660	1790	1780	1950	1880	467	374	
	2884	1595	1370	1650	1454	1600	1675	1790	1782	1900	1857			
DrG 38 5 gr non pyro non Hgo - 20% Bi 80%	2885	1682	1360	1540	1275	1400	1528	1670	1695	1735	1755	440	382	
	2886	1700	1347	1537	1283	1375	1570	1685	1740	1780	1770			
Sodium Stroma Sulph Resist Bichromate Sulph, unweighing.	2907	1140	1770	1800	1525	1500	1850	1760	1765	2085	1895	360	372	
	2908	1170	1732	1800	1565	1550	1830	1767	1770	2082	1885			
500 DrG non pyro 5% Hgo 80% 10 Bi 20 Sn	2936	1487	2210	1780	2050	1975	SC	1910	1975	2300	2250	568	412	
	2937	1525	1845	1645	1663	1633	1720	1630	1700	2085	1875			
500 Sulph 5% Hgo 80% 10 Bi 20 Sn	2940	1890	1865	2050	1958	1972	1795	1890	2447	2556		712	521	
	2941	1900	1870	2075	2067	2050	1775	1900	2387	2650				
DrG 61 - Sulph - 5% Hgo 70% 30 Sn	2981	1370	1400	1475	1481	1050	1855	1800	1920			552	385	
	2982	1387	1360	1485	1431	987	1815	1885	1935					
DrG 60 Sulph 5% Hgo 75% 25 Sn	2985	1140	740	680	768	812	1320	1410	1535			305	313	
	2986	1125	740	675	787	900	1355	1453	1600					

Br G 60 non pyro 5% Hgo 75 Pt 25 Sn	2987	900	925	937	550			575	1135	1135	1112	256	192			
	2988	990	875	880	412			317	920	840	815					
Ferrous Sound Cartridge non pyro 5% Hgo	2993	485	607	1130	793			750	1325	1580	1715	342	344			
	2994	480	620	1255	850			518	1412	1595	1710					
Ferrous Sound Cartridge Self H - 5% Hgo	2995	1190	1517	1832	1437			1362	2057	1990	1860	372	372			
	2996	1235	1770	1990	1475			1500	2072	1950	1865					
62 Br G non pyro 65 Pt 35 Sn 5% Hgo	3001	1305	1410	1675	1587			1150	1550	1675	1960	609	396			
	3002	1385	1435	1700	1706			1206	1700	1740	2000					
62 Br G Self loaded 5% Hgo 65 Pt 35 Sn	3003	1757	2225	1925	1431			1193	1895	2000	1860	606	374			
	3004	1842	2242	2080	1656			1462	2005	2005	2085					
Br G 58 90/Pt 10 Sn Self H. 5% Hgo	3005	1615	1505	1380	943			950	1520	1505	1650	369	332			
	3006	1660	1375	1415	1125			1125	1635	1625	1675					
59 Br Self H 5% Hgo 85 Pt 15 Sn	3007	1910	1595	1682	1250			1250	1840	1840	1895	435	371			
	3008	1600	1560	1490	1112			1125	1695	1775	1815					
Br G 69 non pyro 60 Pt 40 Cd 5% Hgo	3023	625	1460	1475	806			875	1476	1490	1500	572	309			
	3024	595	1490	1520	925			1025	1595	1585	1595					
Br G 69 non pyro Pt 60 Pt 40 Cd -	3025	842	1280	1350	725			858	1555	1420	1380	480	290			
	3026	815	1300	1430	875			987	1650	1535	1525					
Br G 63 - 80 Pt 15 Cu 5 Zn non pyro 5% Hgo	3013	965	785	1275	725			712	1475	1525	1580	420	316			
	3014	962	750	1275	925			945	1710	1765	1780					
Br G 63 - 80 Pt 15 Cu 5 Zn Self heat 5% Hgo -	3015	1540	1650	1585	1206			1175	1580	1595	1605	396	317			
	3016	1577	1650	1600	1250			1225	1600	1565	1570					
Br G 69 60 Pt 40 Cd Self H 5% Hgo	3057	1075	1355	1125	962			1037	1452	1417		450	271			
	3058	1220	1275	1100	1075			1150	1327	1295						

Rotary mixed Bowl 300 lectures 20 to 30 Slide Circuits 3 hrs 20 minute Slide Circuits 3 hrs 20 minute Slide part. will end fine	3061	1190	1135	1335	962		1100	868	1400	1375	285	285				
	3062	1285	1290	1390	887		1037	931	1425	1400						

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output

Work 4/3

1 tube $\frac{1}{1000}$th part sol

m - 100 cc

$$120 \overline{)1350} \; (11.25$$

$$\begin{array}{r} 120 \\ \hline 150 \\ 120 \\ \hline 300 \\ 300 \\ \hline 0 \end{array}$$

9 time

Fol	Feby 19	
2404	bent slight	5 [illegible] 4
5	Strait Cut Smallest	
6	Bent 5+50-4	
5166	OK 5+40 hot	
5321	5+28 Hot	
22		
23	ok	
24		
25		
26		
5327	5+6 Hot.	
28	ok	
29		
5422		
23		
24	ok Except 5425	
25	breaking	
26		
27	5+12 hot.	
5557	slight bent	spine
58	ok	
59	bent	
60	ok 2 cold	
61	ok	
62	bent	
	All 32½ ok to date Feby 18	

Time of packing

Req	510 flake	$3\frac{1}{2}$ lbs	8 min	24 gr
	20 "	$3\frac{1}{2}$	4.5 min	
	20	4	4.5 "	
	20	$4\frac{1}{2}$	5	
	20	5	5	
	30	$3\frac{1}{2}$	3	
	30	4	3	
	30	$4\frac{1}{2}$	3	
	30	5	3	
	40 "	$3\frac{1}{2}$	2	
	40	4	2	
	40	$4\frac{1}{2}$	2	
	40	5	2	

Width punched part 3/4 inch
.005

			Weight and Wire
Old 2400 hole 428 gm Cell	34 holes per inch 30 " across		1.786
21 Hole stock 466 gm Cell	16 holes per inch 20 " across		1.944
Punched stock, 386 gm Cell	15 " across 17 to the inch		1.608
26x30. Stock 478 gm cell.	26 holes per inch 30 holes across.		2.060

Weight new cell estimated

6 - Nickel grid	240.00
180 " Tubes	478.00
144 Iron cups	360.00
Nickel mix inof flake	1632.00
Iron mix	1080.00
Electrolyte	1500.00
Iron grids	130.00
Can.	630.00
Rubber parts	145.00
Uprights & Ends *	150.00

* not weighed

446 | 6345.00 (14.225
446
1884
1784
1900
1800
1100

Practically only 13 lbs

14.225 lbs

Capacity 75% rate 17.4 watts per lb

2

284
300
864

1300

3/2819
418/937 (2.26
826
1820
2870

3/3495
522/1165 (2.23
1044
1214
1066

3/3274.2
4/974
228

3/3699
1799
531/1200 (2.26
1062
1392
1062
3180
318

3/3573
537/1191 (2.22
1074
1170
1074
114

3/2654
398/885 (2.23
796
892
796
158

KCl-

Ni	5321 — 21 Holes 22 23		OK 5 ok 6 ok
Ni	5324 25 26	Punched holes	OK Fine do
Ni	5327 28 29	Punched Hole Spiral	
Ni Co	2428 29 30	5 Ni 5 Cf 2400	18 Hole Co Bad ring
Co	2401 02 03	21 Hole 0.03	30 Rings Not Bent + broken 2 Little Split
Co	2404 05 06	21 Hole 0.035	38 Rings Not only bent
Co	2383 — 2400 84 85	8 Rings	6 rings Not Bent Bent broken Co —
Co	5166 67	Spiral 21 Holes	5 R — 1 broken 1 ok —

3/2795
387/865 (2.22
775
875
775
920

3/3161
5/1054
211

3/3140
495/1047 (2.1
990
57

[ITEM FOUND IN BOOK]

No	Wt	after Key	Weight in book
5280 –	5.488	0.840	5,586
5274	5.87	0.538	5.437
5287	5.617	1.004	5.715
5296	6.282	1.524	6.418

[ITEM FOUND IN BOOK]

No.	7 Cube Wt.
3	1.6990
4	1.6771
2	2.0635
1	1.9541

[ITEM FOUND IN BOOK]

Average ohy 8.2%

No1 - 7283 gives 10+24 2.184 get 1.954
230 mlg ohy - 10% ohy

No2 7356 gives 10+24 2.206 - get 2.063
143 mlg ohy - 6.5% ohy

No3 - 7114 10x31 - 1778 get 1699
79 mlg ohy 5% ohy

No4 = 7046 10x31 1761 get. 1677
84 mlg ohy = 5% ohy

Average 5% ohy

[ITEM FOUND IN BOOK]

5287	wt	5.617		
5296	"	6.282		
5274	"	5.187		
5280		5.488		
N°1	wt	7283	10×24	1.954
2	"	7356	10×24	2.063
3	"	7114	10×31	1.699.
4	"	7046	10×31	1.677

[ITEM FOUND IN BOOK]

26020

2 Note

1st Cord	2nd Cord	1st 50	2nd 50				
1123	1112	718	806	33	23		
1084	1073	646	818	31	7		
1078	1009	820	673	29			
1033	1010	844	883	27			
1012	1003	905	919	25			
986	963	899	909	23			
973	964	904	913	21			29
952	929	933	933	19			27
984	902	931	928	17			25
899	859	915	918	15			23
						14	21
869	827	881	913	13		12	19
						9	17
828	817	855	894	11		7	15
						5	13
753	747	813	815	9		3	11
875	713	801	792	7		1	9

Notebook, N-09-00-00.1

		Cold	50	
Sticky mix 21000 soaked H_2O	350	812	840	
green Thru 20 times all in . Iron rings	351	803	820	
Cobalt Plated	352	806	832	
Sticky mix Rings on before	359	850	850	
packing. Iron rings	360	900	890	
Nickel plated	361	923	917	
Cutting irons rings before pkg	368	898	885	
very sticky mix-	369	826	835	
nickel plated .	370	897	885	
Glucose mix	377	925	920	
	378	915	925	
nickel plated.	379	935	917	
Glucose mix sticky	383	883	895	
Rings on before pkg	384	877	896	
Cobalt Plated	385	883	896	
Glucose	404	962	981	
7000 Cobalt flake	405	900	915	
Cobalt plated	406	932	925	
Cutting irons	440	842	845	
Returned.	441	818	842	
Cobalt plated	442	842	820	

	100	150	200	250	300	350	400
350	841	827	827	807	791	772	775
351	825	816	815	797	777	745	738
352	837	825	822	812	790	753	738
359	840	815	812	786	778	732	768
360	887	877	860	840	827	792	808
361	908	895	895	883	873	845	860
368	850	807	800	762	748	680	683
369	842	813	815	777	687	721	712
370	877	846	837	817	792	755	743
377	917	903	910	900	891	880	870
378	896	882	890	885	880	865	881
379	907	892	892	885	872	847	853
383	888	882	870	860	845	803	810
384	888	885	870	878	860	812	817
385	900	892	882	880	857	818	830
404	998	987	978	968	953	905	900
405	940	915	937	927	922	897	872
406	940	915	890	856	853	840	858
440	847	857	841	840	817	815	787
441	850	860	842	850	832	840	807
442	855	866	848	860	845	850	825

	450	500	550	600	650	700	750	800	850
						6th day			
350	808	807	806	762	777	712	682	657	620
351	790	792	793	753	765	711	680	677	620
352	788	796	785	757	768	718	682	655	567
359	Reuiew 818	835	913		728	691	702	657	643
360	845	862	918		778	722	737	667	653
361	853	892	950		806	737	737	672	637
368	Review 825	840	880	787	785	Holland	found	Seen OK	—
369	811	820	880	790	793	713	735	692	657
370	842	848	908	820	800	743	732	717	697
377	857	850	837	807	842	772	781	750	737
378	875	853	863	817	827	795	790	715	710
379	847	837	820	779	815	756	757	690	700
383	792	770			781	687	657	Went to	
384	802	790			776	662	570	Holland	
385	805	787			775	700	665	384 split	
404	865	837	847		761				
405	822	760	721		575	Co			
406	787	756	710		546				
440	785	762	712	716	630	560	Went to Holland		
441	822	830	780	771	680	622			
442	837	838	795	787	711	662			

	900	950	1000	
350	543	520	470	Set Aside
351	583	555	440	
352	580	527	427	
359				
360	Set aside			
361				
368				
369	Set Aside			
370				
377				
378	Set aside			
379				
383				
384	to be allowed			
385				

		Cold	50
Cu Hg irons reversed	443	855	862
	444	880	885
	445	880	870
Assembled with old irons	451	807	827
	452	830	861
	453	797	846
Remnants 356 but with Nickel rings.	480	892	897
Cobalt Plated	481	897	900
	484½	862	900
Remnants 371–374–Nickel rings Duplicating 368	485	872	896
Nickel plated	486	832	851
Remnants 401	487	872	893
Nickel plated	488	855	860
Remnants 385 Cobalt "	494	865	885
	495	843	785
Remnants 365	496	950	936
	497	922	891
Cobalt Plated	498	897	892
Cu Hg irons	499	847	850
	500	847	847
Cobalt Plated	501	847	917
Cobalt flake not run thru H.	502	892	892
Cobalt plated	503	850	872
ditto	505	877	892
Nickel plated	507	850	867

	100	150	200	250	300	350	400
443	875	885	867	880	862	862	792
444	895	900	888	892	872	875	775
445	885	892	868	865	835	840	722
451	826	808	797	795	772	721	743
452	846	832	850	835	817	785	777
453	843	838	812	792	762	725	772
480	907	892	903	892	885	808	850
481	915	910	913	893	906	887	870
484	900	900	891	890	865	843	902
485	858	882	860	867	870	887	880
486	862	850	842	837	792	787	850
487	891	880	844	830	821	833	850
488	892	871	850	832	823	813	850
494	897	898	878	870	857	862	882
495	887	885	871	850	850	850	862
496	937	908	900	875	881	871	937
497	872	850	827	800	816	792	865
498	905	900	857	778	778	750	653
499	865	852	822	815	790	815	848
500	841	825	807	785	780	770	776
501	915	916	910	900	890	897	917
502	900	885	860	850	820	830	900
503	868	847	831	825	800	800	850
505	900	865	830	827	807	783	882
507	857	838	817	820	765	767	847

	450	500	550	600	650	700	750	800	850	900
443	780	720	782	667	Proms	were	not	bad	— put	in new irons
444	770	712	667	650	slight	improve	ni	ished	— given	To Holland
445	692	650	600	591	from	run	from	prudency	like	not
					to	hand	take	Required	time	
					on	quite	out	see	—	
451	697	692	697	Proms	given	To Holland	+	Hi finish irons		
452	755	745	721							
453	737	717	656							
480	845	862	840	798	717	692	Co			
481	865	816	846	775	637	545	Co			
484½	877	902	865	812	755	762	Co			
485	862	892	828	787		700	Co			
486	840	872	808	767	707	722	Co			
487	822	840	815	787	672	670	Co			
488	832	841	826	796	683	600	Co			
494	862	892	861	837	757	697	650	587		
495	837	867	850	822	736	712	682	640		
496	906	893	848	807	618	550	450	Setaside		
497	822	820	762	735	560	450	342	Setaside		
498	set 550	443								
499	820	837	803	760	682	645	590	453		
500	765	760	733	700	640	575	537	370		
501	885	922	865	835	830	780	732	713		
502	837	855	831	820	750	640	505	Setaside		
503	815	850	803	777	750	602	507	Setaside		
505	850	897	840	820	775	765	715	680		
507	825	867	813	800	772	737	700	662		

		Cold	50
50 Single Tamps - possibly a mistake	511	912	930
	512	938	950
250 Milgrams KCl	564	850	878
	565	867	900
nickel plated	566	883	900
100 Double Tamps	649	850	877
	650	800	837
Cobalt plated	651	831	825
ditto	652	890	917
	653	908	936
Nickel plated	654	927	950
75 Double Tamps	658	920	967
	659	910	941
Nickel plated	660	953	975
Run Cold	752	900	985
	753	802	880
Cobalt plated	754	815	925
Run Cold	755	800	917
	756	877	967
Nickel plated	757	917	997
Run Cold	758	831	950
	759	832	918
Cobalt plated	760	895	992
Run Cold	761	960	1030
	762	877	950
Nickel plated	763	945	1025

x split -

	100	150	200	250	300	350	400	450	500
511	955	952	950	931	932	940	945	907	952
512	945	932	910	877	798	771	935	908x	923
564	870	880	877	883	860	852	865	835	840
565	890	900	897	898	865	860	862	817	812
566	890	897	887	886	842	830	800	737	750
649	881	891	875	891	865	845	875	817	830
650	835	836	813	813	790	775	793	788	767
651	879	872	857	852	860	812	850	817	802
652	932	925	912	922	912	892	932	900	937
653	950	955	950	950	941	925	932	917	946
654	940	950	941	945	955	937	957	925	945
658	982	987	975	967	957	910	955	935x	960
659	955	946	942	932	890	835	950	905x	917
660	996	995	978	967	940	906	982	937x	952
752	993	955	1000	1002	987	1005	962	967	930
753	887	861	880	885	882	890	858	862	847
754	938	912	917	941	937	950	910	922	877
755	913	900	922	920	900	922	853	870	833
756	980	972	987	980	972	987	938	938	920
757	1010	990	972	996	987	1015	955	975	941
758	967	927	960	962	943	965	960	930	877
759	940	903	930	945	915	937	937	900	847
760	1000	967	997	1012	977	1037	1000	957	917
761	1045	1040	1055	1055	1032	1055	1050	1012	987
762	972	965	982	997	982	1010	1013	970	950
763	1032	1017	1030	1033	1020	1048	1032	1007	992

× split

	550	600	650	700	750	800	850	900	
511	903	857	800	825	Co				Set aside
512	835	786	700	767 ×					
564	807	777	758	792	687	760	703		
565	807	760	750	800	680	757	667		
566	741	710	650	715 ×	645 ×	700 ×	617 ×		Set aside
649	780	788		660	gone to Holland	rest 2 gross left			
650	760	715		597					
651	740	750		670					
652	891	892	805	802	712	637	783	75 ×	
653	900	915	837	807	710	617	637	58 ×	
654	882	820 ×	758	745	637	583 ×	567	45 ×	Set aside
658	878 ×	880	777	725	gone to Holland	left with Lott			
659	845 ×	850	750	750					
660	890	866	750	727					
752	955	927	930	925	932	893	867	877	
753	865	847	875	882	850	787	813	813	
754	900	877	867	895	875	813	747	823	
755	850	822	825	825	840	753	753	717	
756	935	930	935	922	935	843	767	667	
757	956	937	937	935	930	677	540	607	
758	895	872	857	887	855	783	750 ×	783	Set aside
759	862	822	800	827	762	590 ×	547 ×	550	
760	933	910	950	910	897	847	837 ×	867	
761	997	957	887	827	835	677 ×	693 ×	697	
762	967	937	952	927	950	847 ×	820 ×	783	
763	1010	981	972	932	920	753 ×	703 ×	700	

All following Dry packed.

		Cold	50	
Dry packing 100 sections.	1183	850	885	
16 flake Co 37 Req green.	1184	848	860	
	1185	823	900	
150 sections Large flake graphite	1297	621	597	
	1298	627	592	
2400 perf 003,	1559	867	842	
10 ni flake ½ Thickness				
24 green rag	1560	867	830	
Style No 1 Not Thru H, 439	1561	892	862	
2400 perf 003	1575	922	907	
10 ni flake ½ thickness				
Thru Hydrogen	1576	892	890	
Style 1 Ref 4.35	1577	907	890	
2400 perf 003. 10 ni 24 green	1740	962	1053	
one wash Gefore filter new 6.03				
Side powder flake 0001 3 lb cut	1741	955	1061	
burrs off Eufet. Thru Hydrogen				
Ditto 3½ cut 0001	1742	1017	1085	
green very heavy 6.04	1743	962	1036	
Ditto 4 lb cut	1744	998	1082	
6.05	1745	951	1037	
Ditto 4½ lb cut	1746	904	987	
6.06	1747	912	985	
Ditto 5 lb cut	1748	880	962	
6.03	1749	902	967	
Same flake as 1740 5.95	1774	970	1040	
004 Eufet burrs off				
0001 ni flake 3 lb cut	1775	1017	1150	
Ni flake Thru Hydrogen	1776	987	1075	
6.17				

x split
xx Band split
B band

	100	150	200	250	300	350	400	450	500	550	
1183	883	887	887	927	890						
1184	867	856	867	902	867						CO
1185	895	907	895	936	907						
1297	582	570	555	626	625	595	570	550	533	523	
1298	595	575	555	625	632	600	580	550	533	510	
1559	855	862	911	887	887	880	892	880	843	839	
1560	855	860	905	910	905	880	912	817	817	787	
1561	872	882	912	895	875	822	827	795	730	700	
1575	952	950	975	976	955	940	912	932	895	880	
1576	922	927	942	980	933	922	900	917	842	850	
1577	932	942	962	970	931	907	872	872	842	780	
1740	1045	1056	1000	1050	997	1000	987				
1741	1061	1068	1032	1087	1052	1040	1030				
1742	1090	1093	1042	1077	1005x	975x	937				
1743	1062	1037	1035	1106	1062	1070	1050				
1744	1080	1112	1087	1135	1100x	1087	1097				CO
1745	1040	1066	1027	1072	1038x	1007	992				
1746	1005	1037	1000	1050	1023x	1000	990				
1747	990	997	975	1012	973B	942	940				
1748	950	957	962	987	975x	972	980				
1749	972	992	975	1006	987	972	985				
1774	1150	1086	1087	1082	1072	1035	1047	1025			
1775	1147	1175	1177	1165	1160x	1122	1130	1122			Co
1776	1068	1067	1091	1065	1050x	1020	1040	1030			

	600	650	
1297	1460	Co	
1298	1487		
1559	807	Co	
1560	797		
1561	677		
1575	820	777	Co
1576	850	827	
1577	787	747	

Ditto 3½ lb wt		1777	950	1022	
		1778	961	1050	
	6.17	1779	943	1040	
Ditto 4 lb wt		1780	983	1085	
		1781	960	1068	
	6.22	1782	967	1087	
Ditto 4½ lb wt		1783	965	1045	
		1784	993	1131	
	6.30	1785	965	1075	
Ditto 5 lb wt		1786	965	1060	
		1787	902	1000	
		1788	927	1050	
10 Co flake 3½ wt 2400 perf .005. CP Cobalt anodes		2300	1173	1100	
		2301	1165	1092	
		2302	1192	1112	
Run cold.		2303	1250	1100	
		2304	1192	1095	
	4.79	2305	1190	1090	
Dup 2300 Except new process irons Cutting Run Cold		2306	1190	1050	
		2307	1150	1062	
	4.48	2308	1200	1102	
Dup 2306. Cutting irons		2309	1170	987	
		2310	1210	1057	
	4.69	2311	1207	1042	

	100	150	200	250	300	350	400	450	
1777	1017	1062	1068	1037	1032	995	995	992	
1778	1042	1057	1058	1050	1011	970	987	975	
1779	1046	1077	1087	1068	1057	1030	1045	1037	
1780	1078	1110	1092	1070	1047	997	970	945	
1781	1060	1057	1066	1037	1023	982	977	960	
1782	1087	1092	1095	1098	1100	1070	1080	1050	
1783	1057	1047	1030	982	963	930	900	897	C.
1784	1142	1155	1162	1135	1135	1100	1100	1115	
1785	1072	1090	1100	1077	1080	1047	1060	1050	
1786	1042	1070	1055	1030	990	945	920	882	
1787	992	1005	1006	1000	1012	992	1020	1045	
1788	1045	1062	1062	1048	1017	1017	1035	1010	
2300	1162	1155	1125						
2301	1170	1170	1125						
2302	1175	1135	1085		C.				
2303	1077	1065	995						
2304	1150	1152	1165						
2305	1135	1137	1147						
2306	1090	1067	[illegible]						
2307	1125	1130	C.						
2308	1155	1155							
2309	790	570	435			Index perfect	English	already	
2310	822	692	617		C.		"	Proof of	
2311	857	617	557				"	Copy	

L 2407 Co-

Dup 2306 Cut Hq irons	2312	1197	1192	
Run Hot.	2313	1143	975	
4.69	2314	1130	1011	
2400—005 Req everything	2371	1107	1110	
Except 6 Rings	2372	1100	1125	
	2373	1120	1140	
Dup 2371	2374	1107	1160	
8 Rings	2375	1115	1150	
	2376	1107	1115	
Dup 2395 21 Hole 005 4 rings	2398	1085	1175	
10 of 24 green Req pack	2399	1057	1137	
But 0035 Stock	2400	1086	1177	
Dup 2398	2404	1103	1137	
Except run in 21% KOH containing	2405	1041	1040	
10 gms KCP	2406	1050	1050	
2400 perf 005 4 rings 3½ wt	2410	908	835	
Req pkg flake not thru H.	2411	912	815	
flake Th. 0001				
10 of 24 green 533	2412	915	837	
Dup 2410	2413	933	795	
Different Replacement	2414	895	807	
	2415	920	847	
21 Hole 005 3½ wt	2431	903	677	
4 Rings Req pack				
10 of 0001 not H.	2432	907	690	
	2433	917	872	
KOH. 9 gms (by weight) and 1 in 25 only H.O.	A 2433			
	A 2432			
Summer 2433 Cut 35 only H.O.	A 2431			

3/4 Run 433 - See the organism at work by 5 to good - 813

X 2413 Phenomenon

2433A. Soaked out KOH & put in Sol until 50 mg gm HP then soaked out - 967 to KOH.

Smaller magnet -

	100	150	200	250	300	350	400	
2312	790	570						
2313	822	692	Co					
2314	857	617						
2371	945	800	675x					
2372	1110	912	982x	Co				
2373	912	807	995x					
2374	1067	1015	950x					
2375	1087	917	840x	Co				
2376	875	897	805x					
2398	1175	1180	1100					Split & [illegible]
2399	1160	1165	1042	Co				Root
2400	1152	1130	1000					[illegible] root.
2404	1066	995						
2405	850x	482	Split open Cancer	Co				
2406	707x	800						
2410	847	845	872	860	830	889		Put in 3% KOH 1 [illegible] 2 [illegible] 1 [illegible] root. [illegible]
2411	825	825	822	797	747	757		
2412	857	880	900	913	863	880		Go bright Range bright [illegible] root.
2413	767	747	712	671	813	77	797	[illegible]
2414	812	830	820	797	763	773		
2415	857	847	840	867	767	840		
2431	587	570	550	Thus in 6638				
2432	625	572	575					
2433	895	907	937	Soaked out KOH, 50 mg HP - then soaked out				
2433A				967		913		1000

Chg

Inspection June 8 –

Tubes jet black don't rub off — Some nearly bright

" light smut rubs nearly bright — Rubs bright

" Deep Prismar red don't rub – — Think this color mostly due to Cobalt dissolved in the KOH.

" Brown smut rubs nearly bright

" "

" "

" "

" "

" "

" Deep brown or red don't rub — Some perfectly bright

" " " rubs bright.

	Cold		50	
21 Hole 005 4 Rings Co flake Reg pack Reg grn	2467	1095	1240	
2 grms 2.10H each cell	2468	1142	1292	
4.57	2469	1142	1247	
21 Hole 005 10 ni flake 24 green 4 Rings Reg grn 21% KOH.	2470	892	992	
2 grms 2.10H. each cell	2471	890	992	
5.27	2472	892	1000	
Dup 2470	2473	865	882	
Except 15% KOH. 5.31	2474	850	900	
2 grms 2.10H each cell	2475	845	895	
21 Hole 005 4 Rings Cobalt flake	2476	992	1082	
15% KOH.	2477	1017	1117	
2 grms 2.10H each cell	2478	1008	1115	
1-24 Hole 005 Gun off ni flake Treated Key after treating with Reg Copper solution	2482	920	900	
	2483	917	862	
4.43	2484	965	925	
Dup 2482 Except 21 Hole 4 Rings	2485	882	872	
	2486	952	935	
4.22	2487	975	967	
21 Hole 005 ni flake 0001 not Hydrogen 9 flake 24 green Spiral tube Reg green	2488	987	960	
	2489	992	957	
4.37	2490	993	965	
Dup 2488	2491	977	930	
8 ni flake 24 Reg green	2492	983	945	
4.25	2493	945	907	

2470
June 3rd 1907 Examined tubes, Strait seam no more
but chem original ton city Tr clean tube
Changing deep brown —

* at Reg rate 250 but 1047 1035 1045 } that drum in Column after 250 to the high rate broke off + flag —

	100	150	200	250	300	350	
				Highrate			
2467	1195	1017	830	658			2413 See this — 2467 could be best backing the working
2468	1297	927	900	717	640	583	Tube Check dear order
2469	1267	1220	1180	910	717	557	Co
2470	1012	1015	1040	970	977	937	910
* 2471	995	1000	1037	967	933	883	830 Set
2472	1012	1022	1040	970	927	887	853 Reade
2473	850	890	895	900	883	857	827 Set
2474	882	900	925	910	890	870	827 Reade
2475	875	892	912	897	777	837	797
2476	990	935	875	720	667	523	
2477	1117	1060	1035	843	717	663	Co
2478	1087	1050	1040	967	790	727	
2482	892	867	823	797			
2483	835	797	720	673	Tube	Check	dear order
2484	892	850	783	790			
2485	812	757	703	677	Set		
2486	867	820	760	736			
2487	937	860	785	767			
2488	970	975	970	927	880	863	
2489	987	950	923	867	823	790	
2490	987	967	967	903	863	840	
2491	942	957	837	827	790		Set Reade
2492	945	917	847	823	793		
2493	910	890	817	773	777		

		Cold	50	100
Dup 2488 7 ni flake 24 green	2494	1007	950	942
	2495	1013	965	960
422	2496	1021	970	942
Dup 2488 6 ni flake 24 green	2497	1015	935	910
	2498	965	895	877
411	2499	1000	887	850

	150		
2494	865	823	
2495	922	863	
2496	877	800	
2497	850	833	
2498	822	793	
2499	867	757	

Co

All Nickel tubes nickel flake

26X30 005 ni flake 10 24 green used in 1983 — green No wash dried at low heat 4 Rings —	5000	1081	1030
	5001	1075	1032
4.87	5002	1068	1032
Dup 5000 green used same as in 1986 ½ Wash dried low heat —	5003	1082	1047
	5004	1070	1045
4.92	5005	1083	1045
Dup 5000 green used as in 1989 ½ wash, dried high heat.	5006	1042	1000
	5007	1030	982
5.39	5008	1087	1040
Dup 5000 green used same as 1992 No wash dried high heat	5009	1093	992
	5010	1105	1042
5.35	5011	1111	1025
Dup 5000 Green one wash in percolator	5012	1056	1000
	5013	1055	1000
5.52	5014	1083	1025
Dup 5000 2 washings percolator —	5015	1015	941
	5016	1022	950
4.77	5017	1057	977
Dup 5000 4 washings percolator —	5018	988	900
	5019	992	900
4.65	5020	1000	900
Dup 5000 8 washings percolator	5021	993	887
	5022	1018	900
4.56	5023	1015	900

	100	150	200	250	300	350	400	
5000	1050	1062	1025	960	970	927		
5001	1045	1065	1025	933	973	941	Estimate	
5002	1055	1067	1032	960	960	927		
5003	1062	1070	1032	1003	983	950	923	
5004	1070	1077	1047	1010	1007	950	933	
5005	1072	1090	1030	1017	987	913	893	
5006	1025	1042	987	943	950	930	920	
5007	1020	1027	1027	920	930	917	943	
5008	1090	1087	1062	1010	1023	1003	997	
5009	1027	1032	980	897	923	897	897	Est. Rate
5010	1072	1085	1045	1010	1023	997	997	
5011	1070	1085	1027	977	980	967	987	
5012	1062	1075	1030	990	1020	997	1023	
5013	1055	1075	1042	987	1007	990	1020	
5014	1057	1057	1012	967	970	963	980	
5015	945	962	940	887	863			
5016	962	992	962	900	863			
5017	990	985	950	897	877			
5018	950	970	950	920	900			
5019	930	967	945	927	883		Estimate	
5020	925	970	950	917	863			
5021	922	950	927	850	863			
5022	932	942	930	870	887			
5023	942	962	937	907	887			

Anions all coated with Copper on changing
Ni seems ok - but the run will probably go 6 mo

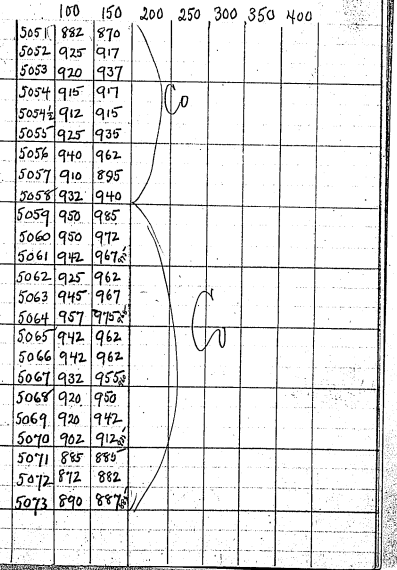
			Cold	50	
Dup 5000 Except RA 744 green		5027	975	913	
Same as used in 2247		5028	980	922	
	4.56	5029	978	935	
26X30 005 — flake 0001 not H.		5030	981	908	
New process HgCu Irons		5031	972	900	
	4.53	5032	956	875	
Dup 5030 RUN COLD		5033	960	900	
New process HgCu Irons		5034	950	888	
	4.56	5035	973	912	
Dup 5030		5036	962	900	
New process HgCu irons		5037	952	912	
Reversed once week	4.55	5038	962	900	
26X30 005 flake 0001 not H. 3½ wt 4 Rings		5039	1142	712	
Run in 33% KOH		5040	1120	717	
		5041	1106	725	721.5 / 718
Ditto		5042	1092	682	
31% KOH		5043	1085	557	
		5044	1118	700	1139 / 1130
Ditto		5045	1076	805	
29% KOH		5046	1077	822	
		5047	1081	833	
Ditto		5048	1031	870	
27% KOH		5049	1031	825	
		5050	1036	837	

5036 Reversed I wrote out test

	100	150	200	250	300	350	400
5027	950	942	932	883	883		
5028	952	982	982	930	907		
5029	960	975	940	890	883		
5030	917	935	950	917	893		
5031	930	947	947	930	900		
5032	920	947	935	903	893	Set aside	
5033	932	920	937	917	913		
5034	920	907	922	917	897		
5035	942	930	950	920	913		
5036	907	930	947	960	933		
5037	895	977	937	917	900		
5038	915	925	947	933	913		
5039	640	542	Changed to 21%		run on board 3 times		
5040	645	562					
5041	632	545					
5042	657	600					
5043	482	367					
5044	690	567			3)	929 / 609	
5045	755	727					
5046	797	742					
5047	745	690			2)	147 / 685	
5048	850	827					
5049	835	827					
5050	845	825					

Ditto 25% KOH	5051	1010	881	
	5052	1012	915	
	5053	1015	920	
Ditto 23% KOH	5054	990	910	
	5054½	986	886	
	5055	982	900	
Ditto 21% KOH	5056	961	908	
	5057	982	887	
	5058	982	918	
Ditto 19% KOH	5059	950	932	
	5060	957	932	
	5061	960	935	
Ditto 17% KOH	5062	943	922	
	5063	922	931	
	5064	938	941	
Ditto 15% KOH.	5065	907	930	
	5066	900	917	
	5067	891	897	
Ditto 13% KOH	5068	866	882	
	5069	872	887	
	5070	870	875	
Ditto 11% KOH	5071	835	860	
	5072	830	852	
	5073	820	852	

	100	150
5051	882	870
5052	925	917
5053	920	937
5054	915	917
5054½	912	915
5055	925	935
5056	940	962
5057	910	895
5058	932	940
5059	950	985
5060	950	972
5061	942	967
5062	925	962
5063	945	967
5064	957	975
5065	942	962
5066	942	962
5067	932	955
5068	920	950
5069	920	942
5070	902	912
5071	885	880
5072	872	882
5073	890	887



Ditto	5074	745	810	
9% KOH	5075	755	820	
	5076	758	808	
26X30 005 ½ flake 0001 strips Cut 20/1000 wide Thru 20 mesh 1 of 24 Reg grain 3½ lbs Cot 4 Rings — burs ground 4.31	5100	962	900	Co
	5101	957	932	
	5102	945	887	
Ditto Cut 20/1000 wide 4.41	5103	980	915	Co
	5104	955	906	
	5105	967	928	
Dup 5100 Except 21 Hole 005 stock 4.22	5106	922	887	Co
	5107	900	867	
	5108	938	895	
Dup 5103 Except 21 Hole 005 stock 4.26	5109	923	897	Co
	5110	962	712	
	5111	955	917	
26X30 005 burs off reg pack flake not H. 1 of 24 reg grain 3½ lbs flake ½ Thickness 4.24	5112	985	935	
	5113	986	950	
	5114	997	965	
ditto 9 flake ½ Thick 00005	5115	1005	975	
	5116	1001	980	
	5117	1000	982	
ditto 8 flake ½ Thick	5118	998	978	
	5119	986	960	
	5120	996	972	

	100	150	200
5074	802	834	
5075	812	840	Co
5076	790	800	
5100	835	Co	
5101	930	Co	
5102	877	Co	
5103	870	Co	
5104	867	Co	
5105	912	Co	
5106	882	Co	
5107	862	Co	
5108	865	Co	
5109	895	Co	
5110	637	Co	
5111	897	Co	
5112	955	950	935
5113	950	952	932
5114	955	967	950
5115	987	972	950
5116	992	980	962
5117	992	985	957
5118	990	980	960
5119	972	967	957
5120	1005	987	975

Dup 5112	5121	997	972	
7 flake ½ Thickness	5122	1002	1010	
4.60	5123	1005	981	
Dup 5112	5124	1020	995	
6 flake ½ Thickness	5125	1002	981	
4.81	5126	1006	973	
Dup 5112	5127	967	962	
5 flake ½ Thickness	5128	987	970	
4.93	5129	996	976	
Dup 5112	5130	1007	985	
4 flake ½ Thickness	5131	982	981	
5.07	5132	985	983	
Dup 5112	5133	1002	992	
3 flake ½ Thickness	5134	1000	1005	
5.09	5135	995	977	
26X30 005 Gun off Jig pack	5145	930	905	
"Flake not Thru Hydrogen" 4 rings				
3 lbs cut. .0001 fl.	5146	940	923	
4.47	5147	940	918	
Dup 5145	5148	922	906	
Except 5 Rings				
	5149	922	915	
4.50	5150	931	927	
Dup 5145	5151	960	936	
Except 4 lb cut	5152	977	950	
4 Rings 4.71	5153	990	950	

	100	150	200	250	300
5121	990	972	950		
5122	995	980	930		
5123	1005	982	945		
5124	1017	977	940		
5125	1007	975	947		
5126	1000	980	937		
5127	997	965	927		
5128	995	977	965		
5129	977	962	937		
5130	992	957	922	947	893
5131	977	967	960	957	913
5132	985	962	920	900	877
5133	1000	950	922	900	873
5134	1007	962	942	933	877
5135	980	935	912	903	867
5145	927	925	912	897	850
5146	942	930	895	880	817
5147	935	937	920	903	850
5148	930	920	887	897	843
5149	920	900	887	903	860
5150	932	937	900	867	837
5151	930	915	890	890	867
5152	947	950	930	920	890
5153	940	930	892	873	863

C0

Below

Dup 5145	5154	972	950	
4½ lb weight	5155	947	917	
4 Rings 4.77	5156	957	935	
21 Hole flake 0001 not H.	5157	900	880	
4 lb wt – 4 rings	5158	892	865	
	5159	881	875	
Dup 5157	5160	900	906	
Except 5 Rings	5161	900	892	
4.60	5162	915	870	
26x30 005 3½ lb wt 10 m 24	5177	850	900	
Reg green 0001 ff not H.	5178	720	792	
Run in 29% NaOH 4.28	5179	837	872	
	5180	1045	990	
27% NaOH	5181	1047	996	
	5182	1083	1008	
	5183	1125	1005	
25% NaOH	5184	1138	972	
	5185	1132	998	
	5186	1087	1032	
23% NaOH	5187	1070	991	
	5188	1083	992	
	5189	1050	982	
21% NaOH.	5190	1047	998	
	5191	1045	998	

	100	150	200	250	300	350
5154	932	925	900			
5155	917	895	872			
5156	937	920	910			
5157	882	870	845			
5158	870	872	842			
5159	872	815	887			
5160	917	840	872			
5161	900	825	865			
5162	870	800	867			
5177	800					
5178	645					
5179	690					
5180	735					
5181	825					
5182	850					
5183	850					
5184	785					
5185	895					
5186	940					
5187	900					
5188	880					
5189	900					
5190	885					
5191	930					

Co

G

19% NaOH 4.30	5192	1005	908		
	5193	1015	897		
	5194	1000	911		
17% NaOH 4.31	5195	980	907		
	5196	977	905		
	5197	988	910		
15% NaOH 4.26	5198	942	910		
	5199	945	902		
	5200	947	910		
13% NaOH 4.26	5201	895	907		
	5202	910	906	Set aside	
	5203	900	895		
11% NaOH 4.24	5204	867	912		
	5205	870	917		
	5206	875	912		
9% NaOH 4.16	5207	827	892		
	5208	835	900		
	5209	787	840		
7% NaOH. 4.12	5210	790	840		
	5211	798	837		
	5212	793	812		
2400, 6mm ground 4 rings fuff. Turn SPIRAL 3½ lb. wt 0001 f. 10 24 grsn. Rag 1hnu 20 fmesin	5303	960	948		
	5304	895	886		
	5305	930	937		
4.50	5306	927	930		
	5307	932	915		

	100	150	
5192	850	850	
5193	850	850	
5194	877	877	
5195	880	872	Co
5196	890	870	
5197	892	850	
5198	897	887	
5199	877	865	
5200	895	882	
5201	900	875	
5202	915	905	Set aside
5203	895	875	
5204	900	867	
5205	900	850	
5206	897	865	
5207	847	722	Cn
5208	877	860	
5209	650	685	
5210	825	792	
5211	785	682	
5212	785	685	
5303	992	987	957
5304	915	872	847
5305	947	932	920 Co
5306	950	907	883
5307	930	910	867

			Cold	50
		5308	932	948
		5309	955	946
	4.50	5310	956	942
		5311	977	956
		5312	992	956
Dup 5303		5313	987	946
Except 26X30 Spiral one		5314	985	955
Complete Turn 4 Rings		5315	990	943
		5316	957	942
		5317	977	950
		5318	985	947
		5319	1007	947
	4.51	5320	981	941
21 Hole 005 ff not H.		5321	970	845
10 fl 24 Reg grain		5322	975	956
21% KOH 10 Grams KCP.	4.25	5323	966	937
Dup 5321.		5324	971	958
Except punched hole stock		5325	937	885
21% KOH 10 grms KCP	4.27	5326	965	931
Punched hole stock Spiral		5327	985	967
1 Turn fl Not H. 0001' 10 fl		5328	1035	1000
24 Reg grain				
21% KOH 10 grms KCP	4.55	5329	992	960
Punched hole stock 005		5329½	937	900
Spiral 1 Turn 10 fl. 24 Reg		5330	925	922
grain 0001 - not H.		5331	940	935
21% KOH.		5332	958	942
		5333	935	925
	4.57	5334	905	890

	100	160	200	
5308	977	960	887	
5309	970	960	902	
5310	970	975	947	
5311	975	950	977	
5312	962	960	940	
5313	957	945	890	Co
5314	982	987	980	
5315	970	965	933	
5316	955	942	893	
5317	962	950	933	
5318	950	937	890	
5319	962	950	907	
5320	965	957	933	
5321	765	760		
5322	930	915		
5323	917	932		
5324	915	920		Co
5325	865	887		
5326	917	945		
5327	990	967		
5328	1012	1000		Co
5329	977	962		
5329 11/2	940	920		
5330	960	945		
5331	972	950		Co
5332	972	947		
5333	962	947		
5334	932	920		

	5335	952	870
	5336	933	927
4.57	5337	972	967
Dup 5329½	5341	927	837
Except nickel flake cut in strips 60/1000 -	5342	967	932
4.47	5343	1012	972
Dup 5341	5344	1035	995
Except 21 Hole 005 Spiral	5345	1023	925
4.41	5346	1033	975
21 Hole 005 - Spiral one Turn	5347	958	938
3½ cut 10 of 24 Req green	5348	990	902
Req pack	5349	997	970
21% KOH.	5350	1006	955
	5351	985	942
	5352	995	942
	5353	987	938
	5354	985	932
4.44	5355	1000	920
21 Hole 005 - 3½ lbs Req pack	5356	1090	782
10 of 24 Req green.	5357	1125	833
5 Rings Run 33% KOH 4.26	5358	1122	802
Dup 5356	5359	1085	887
Run 31% KOH	5360	1083	783
4.25	5361	1030	785

	100	150	200	250	300			
5335	842	845						
5336	950	965						
5337	987	985						
5341	837							
5342	875							
5343	906							
5344								
5345								
5346								
5347	977	950	928					
5348	945	960	907					
5349	1000	985	950					
5350	957	967	953					
5351	960	980	950					
5352	946	892	853					
5353	922	880	790					
5354	923	892	817					
5355	925	847	807					
5356	687							
5357	672							
5358	645							
5359	762	577						
5360	635	525						
5361	692	560						

Co

Co

Co

da Sussed.

5359, 5367 – In Reference 12 [illegible] ordered NA strip [illegible] all checked then measured with old values [illegible]

			Cold	50
29% KOH	4.25	5362	1030	775
		5363	1032	771
		5364	957	768
27% KOH	4.30	5365	1008	868
		5366	1012	875
		5367	1010	906
25% KOH	4.34	5368	995	908
		5369	1017	938
		5370	997	910
23% KOH	4.32	5371	945	907
		5372	996	922
		5373	947	900
21% KOH	4.38	5374	975	940
		5375	948	920
		5376	970	880
19% KOH	4.29	5377	935	921
		5378	940	946
		5379	912	921
17% KOH	4.27	5380	897	925
		5381	912	931
		5382	897	928
15% KOH	4.24	5383	862	927
		5384	872	928
		5385	845	900

5363 Dooked then out dried + treated with
500 mlg HNO_3 in test tubs 1" dia 5" long –
I find that this Tube was either never
nickel plated or the plating was
porous + local action or current
got in behind it + threw all the nickel
plating off –
Then 6 cc 25% KOH, dissolves nickel
This may be the whole trouble with
strong KOH,
5364 – no plated ok – tested with acid –

(5362) was + thank treated 1 cc – 200 mlg –
its around 793 – 2nd Run –
But not sure this is the trick –

5362A – 777 – 250th Run –

	100	150	200	250	300	350
5362	632	520	787			
5363	382	300				
5364	725	657				
5365	865	817				
5366	800	767				
5367	862	830				
5368	890	882				
5369	912	905				
5370	850	842				
5371	885	880				
5372	892	887				
5373	895	897				
5374	927	880				
5375	915	850				
5376	812	840				
5377	932	870				
5378	937	912				
5379	921	880				
5380	922	842				
5381	927	767				
5382	910	835				
5383	927	865				
5384	925	892				
5385	850	712				

Lucky trick

Good work

13% KOH. 4.23	5386	855	900	
	5387	865	915	
	5388	762	925	
11% KOH 4.30	5389	790	877	
	5390	835	912	
	5391	825	892	
9% KOH. 4.21	5392	757	817	
	5393	765	833	
	5394	720	795	
7% KOH. 4.21	5395	700	748	
	5396	750	820	
	5397	690	807	
21 Hole 005 10 of 24 green 3½ cwt 4 rings 10 of 24 Req green 4.32	5398	977	947	
	5399	957	925	
Run 5 times give to Holland	5400	975	942	
Dup 5398 Except 21 Hole Spiral 4 Rings 4.42	5401	1006	977	
	5402	992	950	
After 5 Runs goes to Holland	5403	980	945	
26 X 30 005 10 of 24 Req green 3½ cwt 4 rings 4.26	5404	955	927	
	5405	958	945	
After 5 Runs gives to Holland	5406	958	925	
Dup 5404 Except Spiral lube 4.49	5407	990	955	
	5408	1013	975	
Run 5 runs gives to Holland	5409	1031	987	

	100	150	200	250			
5386	897	792					
5387	918	897					
5388	802	750					
5389	858	820					
5390	900	875					
5391	860	770		Laid aside			
5392	780	732					
5393	825	832					
5394	787	750					
5395	632	540					
5396	782	765					
5397	792	787					
5398	952	947	890	867			
5399	925	940	903	885			
5400	942	933	923	853			
5401	972	990	910	850			
5402	955	950	897	863			
5403	957	963	861	863	Set aside		
5404	940	967	947	847			
5405	937	963	890	863			
5406	927	957	890	863			
5407	972	893	903	847			
5408	967	977	897	860			
5409	967	940	863	860			

			Cold	80
Punched hole stock .005 1 of 24 green Req 3½ wt Req pack 4 rings		5410	960	927
	4.43	5411	946	927
5 Runs Then give to Holland		5412	961	930
Dup 5410 4 Rings Except spiral Tube		5413	962	922
	4.51	5414	995	957
5 Runs Then give to Holland		5415	950	922
2400 .005 24 Req green 10 flake Req pack 4 Rings		5416	942	920
	4.28	5417	962	925
5 Runs then go To Holland		5418	963	925
Dup 5416 Spiral Tube		5419	1001	972
	4.48	5420	990	972
5 Runs then go to Holland		5421	990	957
21 Hole .005 Spiral Req pack 4 Rings 10 to 24 Req green Top end not fastened		5422	882	870
		5423	927	900
21% 10 Grams KCl	4.11	5424	917	895
Dup 5422 26 X 30 .005 Spiral Not fastened at Top		5425	945	972
		5426	1007	945
10 grms KCl	4.16	5427	875	898
21 Hole .005 1 of 24 Req green Spiral		5428	1140	832
		5429	1110	835
Run in 33% KOH	4.18	5430	1092	782
Dup 5428 Punched stock		5431	915	640
		5432	1095	800
Spiral Run in 33% KOH	4.20	5433	1090	840

	100	150	200	250			
5410	937	907	830	783	set aside		
5411	920	910	833	793	set aside		
5412	925	893	833	787	set aside		
5413	853	820					
5414	963	847					
5415	837	797			set aside		
5416	917	913	850	827			
5417	955	890	853	797			
5418	940	947	863	807			
5419	965	953	857	807			
5420	960	830	910	873			
5421	967	967	927	890			
5422	897	890	850				
5423	500	905	863				
5424	927	925	897				
5425	942	922	850				
5426	890	845	877				
5427	905	860	797				
5428	680	500					
5429	700	495					
5430	607	445					
5431	505						
5432	647						
5433	575						

Dup 5428	5434	1127	800	
26X30 005 Spiral	5435	1145	750	
Run 33% KOH 4.20	5436	1145	800	
Dup 5428	5437	870	890	
30X34 005 Spiral	5438	1080	900	
Run 33% KOH 4.01	5439	1095	833	
21 Hole 0035 bms ground dont	5440	970	955	
nick 1 of 24 Req green 4 ringa	5441	972	942	
Spiral tube 21% 4.64	5442	930	892	
21 Hole 005 RA 707 not washed	5443	1091	980	
not filtered dried low heat	5444	1060	1012	
Req 707 5.10	5445	1092	987	
Dup 5443	5446	1117	992	
26X30 - 005 spiral	5447	1100	987	
707 5.12	5448	1112	970	
26X30 005 RA 707 Half	5449	1163	1135	
wash, filtered dried high heat	5450	1175	1155	
707 5.56	5451	1177	1155	
Dup 5449	5452	1167	1185	
21 Hole 005 Spiral	5453	1200	1200	
707 556	5454	1185	1172	
21 Hole 005 Spiral RA 707	5455	1155	1107	
Half wash not filtered dried	5456	1157	1065	
low heat 5.04	5457	1180	1120	

	100	150	200	250	300	350	400
5434	600						
5435	550						
5436	582						
5437	492						
5438	555						
5439	632						
5440	975	967	867				
5441	980	965	830				
5442	920	922	817				
5443	940	820	723				
5444	980	917	847				
5445	942	860	770				
5446	920	815	807				
5447	940	930	837				
5448	872	795	700				
5449	1070						
5450	1135						
5451	1100						
5452	1175	1187	1090	1127	1153	1130	1117
5453	1170	1157	1020	1037	1076	1060	1067
5454	1135	1127	1040	1080	1100	1107	1083
5455	1075	1065	967	983	983	923	913
5456	1025	997	967	947	943	953	910
5457	1117	1097	907	887	893	957	930

Co

Ca

50 mg
2 hrs

Jhu tube had 5.883 grams $Mg(ClO_4)_2$ 6 H_2O not accounting for hydration for water absorption.

Jhu Tube had 6.048 $Mg(ClO_4)_2$

see no 2 book for flake –

75 + 27 flake 25% flake

76 " " 23% flake

all 1/3

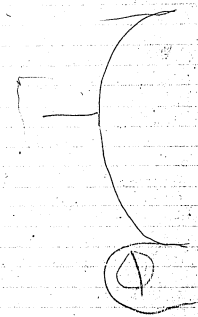
21 Hole 005 Spiral RA 707 Reg wash, filtered dried low heat	5467	952	957	
	5468	971	960	
4.46	5469	971	957	
Dup 5467 26x30 005 spiral	5470	950	945	
	5471	987	947	
4.41	5472	1002	962	
21 Hole 005 spiral - Reg number washes not filtered dried high heat,	5473	982	967	
	5474	997	985	
4.37	5475	1008	985	
Dup 5473 26x30 005 spiral -	5476	1022	995	
	5477	995	967	
4.43	5478	1010	922	
21 Hole 005 spiral - Reg number washes filtered dried high heat	5479	947	935	
	5480	965	947	
4.40	5481	960	947	
Dup 5479 - 26x30 005 spiral	5482	987	942	
	5483	970	935	
4.47	5484	957	922	
21 Hole 005 Spiral Reg number washes not filtered dried low heat	5485	900	895	
	5486	945	935	
4.28	5487	931	917	
Dup 5485 26 X30 005 spiral -	5488	962	922	
	5489	968	887	
4.48	5490	972	857	

	100	150	200
5467	972	987	893
5468	985	950	867
5469	972	910	857
5470	967	927	867
5471	970	915	857
5472	970	950	867
5473	982	950	867
5474	997	967	850
5475	997	950	853
5476	1007	990	890
5477	980	972	843
5478	942	950	887
5479	970	912	867
5480	975	932	843
5481	980	940	843
5482	970	950	867
5483	945	925	847
5484	955	950	890
5485	922	857	817
5486	967	910	833
5487	947	860	810
5488	965	950	867
5489	912	900	867
5490	862	883	843

250 300

Hydrolysis — KCl 1.5% (take 23.8 [illegible] of this exam. [illegible])

Greenfeeding Gad –



			Cal	Sq	
21 Hole 005 spiral of reg green under Bell jar with Sponge – water for several hours		5491	972		
		5492	987		
	4.650	5493	1000		
Dup 5491		5494	865	822	
Except green on Hot plate		5495	893	837	
	4.160	5496	882	793	
21 Hole 005 spiral		5497	1000	832	
Not filtered, dried high heat		5498	982	792	
Ni Ni feeds Gad	5.32	5499	967	822	
Dup 5497		5500	1025	875	
26X30 005 spiral		5501	1030	920	
Ni Feeds Gad	5.42	5502	1026	817	
Dup 5497		5503	980	792	
Except 21 Hole 0035 spiral		5504	980	822	
Ni feeds Gad	5.51	5505	1050	765	
Dup 5497		5506	1072	920	
Except 26X30 0035 spiral.		5507	1085	920	
Ni feeds Gad	5.56	5508	1070	950	
21 Hole 005 Spiral		5509	1196	1130	
No wash filtered, dried low heat		5510	1212	1177	
Reg	5.49	5511	1215	1117	
Dup 5509		5512	1243	1175	
21 Hole 0035 spiral		5513	1245	1170	
	5.61	5514	1150	1170	

5512. Original wt 8.041 before KCy 8.139 gain 98 mlg after KCy flake weighed - 2.260 or 28%

5513 Orig wt 7.977 before KCy 8.071 gain 94 mlg after KCy flake weighed 2.0726 or 25.8%

5514 Orig wt 8.041 before KCy 8.139 gain 98 mlg after KCy flake weighed 2.0655 or 25.2%

	100	150	200	250	300	350	400
5491	932	950	883	Co			
5492	947	965	890				
5493	957	975	927				
5494	842	787	Co				
5495	855	790					
5496	852	797					
5497	700	617					
5498	690	615					
5499	690	595					
5500	787	757					
5501	607	585					
5502	740	750	Co = fluid bad				
5503	675	625					
5504	687	670					
5505	755	737					
5506	855	822					
5507	865	812					
5508	877	817					
5509	1095	1102	1057	1053	857*	1047	1040
5510	1172	1167	1153	1167	1150		
5511	1092	1092	1080	1087	1107	1107	1087
5512	1172	Thru tube has 5.705 $Pu(OH)_3$ not given for these water or above — See Dr. S.					
5513	1160	ditto 5.961				See other book NOZ for flake	
5514	1197						

Report on 5530 tube 200 Runs -
Brown - ends blunt not long like lines made now - [illegible]
[illegible] Rubbed with towels, rings top left and bottom right and brown
[illegible] Nothing about this tube is sense of perforation
closed - can force tube, no flat tube passed up closing tube flat
in 1/2 to 3/4 of tube tube - tube is a little pressure was used -
flake is brilliant [illegible] attached lighter ends fine tube - flake grained, it very much
contorted or of particles green large - flake best screen - The surface
is like a flap - Eye not smooth like present flakes -
doesn't be much agreement to it - notice burry ground nearly off -
have a number mined - sample of flake is all [illegible] - [illegible]
the screen - it looks as if dried flake - when light tube - generally
dirty green little flake - Reagent of lump provided flake -
flake is real metallic looking often discolouring not [illegible]
strong key looks like Co flake - unknown [illegible] poor alec
flake under some condition - strong yellow [illegible] very
faint brown - poor cell - you [illegible] cell -

70 flake is the 1st flake in which Iron was used as 1st Coat instead of CoCoat —

5530
Notice RuCl3 on all cells
which Fe_2O_3 seems are
in 5530. These
might be all RuCl3 from
previous cell not cleaned
tubes brownish not bent, Iron grid clean
good looking cell -

x Crossed on wet asbestos

Dup 5509				
26x30 0035 spiral		5515	1230	1192
		5516	1230	1180
	5.61	5517	1238	1190
Dup 5509				
26x30 005 spiral		5518	1207	1097
		5519	1192	1077
	5.48	5520	1175	1075
21 Hole 005 not washed, filtered		5521	1197	920
dried high heat		5522	1166	1135
	5.84	5523	1137	1015
Dup 5521				
21 Hole 0035 spiral		5524	1150	1067
		5525	1127	1000
	5.95	5526	1150	1030
Dup 5521		5527	1095	872x
26x30 005 spiral		5528	1112	922
	5.77	5529	1082	872
21 Hole 005 spiral -		5530	1183	1165
RA 707 - 1/2 wash, filtered,		5531	1157	1150
dried low heat	5.24	5532	1165	1137
Dup 5530.		5533	1217	1177
21 Hole 0035 spiral -		5534	1207	1182
	5.35	5535	1210	1220
Dup 5530		5536	1145	1115
26x30 005 spiral -		5537	1137	1095
	5.27	5538	1177	1050

Lookout for 2826 A
2826 B =

25 Bi 75 Pb made by RA 707 72 · 5% Hgo

Best run 400 Hot runs

A 1930 t.V 3000½V
B 1800 " 2470

Notched effect
not from Hoop
no 500 w. Chec
Req

	100	150	200	250	300	350	400
5515	1172	1175	1130	1100			
5516	1175	1170	1167	1100			
5517	1162	1155	983	960			
5518	1047	1037	963	997			
5519	1025	1025	983	990			
5520	1032	990	893	933			
5521	727	650	527				
5522	1095	1117	1070				
5523	927	885	780				
5524	1032	1005	953	987			
5525	957	900	830	913			
5526	995	945	897	947			
5527	822	777					
5528	870	815					
5529	760	657					
5530	1150	1172	1190				
5531	1137	1145	1163	1143	1130	1143	1050
5532	1127	1137	1167	1127	1123	1123	1073
5533	1155	1147	1170	1093	1087	1087	1060
5534	1157	1140	1160	1040	1000	1020	1010
5535	1180	1185	1197	1083	1050	1087	1067
5536	1075	1072	1067	1030	1000	1033	1020
5537	1097	1097	1097	1090	1067	1123	1067
5538	1100	1075	1067	1040	1023	1033	1020

Co

Set

					Andrew
Dup 5530		5539	1207	1207	
26X30 0035 spiral		5540	1233	1205	
	5.29	5541	1232	1215	
Dup 5530		5542	1207	1177	
30X34 005 spiral		5543	1195	1185	
	5.114	5544	1212	1035	
21 Hole 0035 Spiral		5545	1166	777	
Req Run 33% KOH.		5546	1187	847	
	4.73	5547	1203	875	
Dup 5545		5548	1158	757	
26X30 0035 spiral		5549	1257	892	
Run 33% KOH	4.69	5550	1218	877	
Dup 5449		5551	1000	665	
Except		5552	1032	777	
Run 33% KOH	5.80	5553	1032	807	
Dup 5452		5554	1023	750	
Run in 33% KOH.		5555	1015	805	
	5.85	5556	950	760	
21 Hole 0035 Spiral req pack		5557	1042	970	
10 of 24 Req 9 r 2 in	4.69	5558	1060	997	
10 gms KOH each cell		5559	1070	982	
26X30 0035 10 of 24 Req 9		5560	1041	995	
Run 10 gms KOH		5561	1037	992	
Each cell	4.90	5562	1057	992	

5549 - Small Bent Gerbera on stem - 150R

	100	150	200	250	300	350	400	
5539	1132	1105	1077	910	907	933	890	Left side
5540	1147	1160	1103	987	990	1063	987	
5541	1185	1195	1147	950	933	1013	1000	
5542	1140	1117	1113	1027 *	993	957	933	Right side
5543	1167	1182	1193	1050 *	1000	1027	917	
5544	930	862 *	747 *	643 *	600 *	593 *	493	
5545	680							
5546	700							
5547	730							
5548	682							
5549	812							
5550	742							
5551	580							
5552	630							
5553	600							
5554	612							
5555	630							
5556	562							
5557	982							
5558	1007							
5559	962							
5560	995							
5561	1007							
5562	985							

X split

			Cold	50
21 Hole 005 spiral		5563	1176	790
Req pack 5 Rings		5564	1122	865
Run 33% KOH.	4.61	5565	1206	750
Dup 5563		5566	1218	840
21 Hole 0035 5 Rings		5567	772	515
Run 33% KOH	4.61	5568	1188	915
26X30 spiral 0035		5569	1217	845
5 Rings		5570	1200	865
Run 33% KOH	4.71	5571	1175	862
Dup 5569		5572	1130	722
26X30 005 5 Rings		5573	1135	772
Run 33% KOH	4.64	5574	1137	385
21 Hole 005 spiral 5 Rings		5575	1027	850
½ wash filtered dried high heat		5576	992	720
Same as used in 5449				
Req pk Run 33% KOH	5.83	5577	1018	842
Dup 5575		5578	1070	690
21 Hole 0035 5 Rings		5579	1085	880
Run in 33% KOH	5.96	5580	1110	867
Same as used in 5449 RA 707		5581	1110	787
26X30 0035 5 Rings		5582	1110	847
Run 33% KOH.	5.93		1080	847
Dup 5581 Except		5583	942	645
26X30 005 spiral		5584	862	520
5 Rings - Run 33% KOH	5.92	5586	1111	890
26X30 005 Spiral		5587	1111	955
No wash not filtered, dried low heat		5588	1110	937
To Holland then 50 Hot runs then				
to Holland 4 Rings 7.7	5.26			

	100	150	200	250	300
5563	650				
5564	535				
5565	650				
5566	712				
5567	417				
5568	745				
5569	700				
5570	707				
5571	682				
5572	565				
5573	627		Co		
5574	510				
5575	645				
5576	670				
5577	662				
5578	546				
5579	675				
5580	725				
5581	665				
5581½	662				
5582	680				
5583	450				
5584	150				
5585					
5586	883	823	813	Saturate	
5587	900	810	800		
5588	867	817	793		

		Cold	50	
Dup 5586 Except 21 Hole 005 spiral goes To Holland after 50 Hot runs 5.17	5589	1022	842	
	5590	1030	862	
	5591	1035	892	
26 X 30 005 spiral 4 rings ½ wash filtered dried low heat Req pk goes To Holland then 50 Hot runs 5.37	5598	1181	1080	
	5599	1185	1075	
	5600	1155	900	
Dup 5598 – 21 Hole 005 – 4 Rings To Holland then 50 Hot runs 5.43	5601	1175		1077
	5602	1182		1143
	5603	1186	~~842~~	1113
26 X 30 005 ½ wash not filtered dried high heat 4 rings Holland then 50 Hot 5.24	5604	1052	867	"
	5605	1082		
Dup 5605 21 Hole 005 spiral – To Holland + 50 Hot	5606½	955	825	
26 X 30 005 Req pk spiral – Req wash, filtered, dried low heat. To Holland + 50 Hot 4.77	5609	987	967	
	5610	965	950	
	5611	972	922	
Dup 5609 Req pack – RA707 21 Hole 005 To Holland 50 Hot 4.66	5612	963	892	
	5613	942	920	
	5614	975	920	
26 X 30 005 RA707 Req number washer not filtered dried high heat spiral Req pack. To Holland + 50 Hot 4.60	5615	987	955	
	5616	986	995	
	5617	1008	1010	
26 X 30 005 spiral – same as used in 5479 To Holland + 50 Hot 4.61	5618	935	937	
	5619	930	975	
	5620	927	892	

	100	150	200
5589	767	683	
5590	807	643	
5591	813	823	
5598	933	947	947
5599	960	970	977
5600	773	783	790
5601	1083		
5602	1113		
5603	1113		
5604	767	730	727
5605	793	787	753
5606	733	667	667
5609	963	917	867
5610	955	950	893
5611	923	867	867
5612	897	947	903
5613	893	850	783
5614	937	910	857
5615	903	910	875
5616	980	933	890
5617	953	930	883
5618	918	910	873
5619	917	947	920
5620	807	783	780

Set aside

Start of 1½ spiral

Start of 1½ Spiral

26x30 005 Spiral same as used in 5485		5621	910	945	63
		5622	928	967	1
To Holland + 50 Hot	4.63	5623	892	930	
26x30 005 same as used in 5497		5624	977	885	1
		5625	977	805	
To Holland + 50 hot	5.59	5626	1011	860	1
21 Hole 005 1½ SPIRAL 4 Rings - 1 of 24 Req green Req pk		5627	992	830	62
		5628	1000	860	
Holes 62	4.68	5629	975	812	11
21 Hole 005 1½ spiral 5 Rings		5630	950	845	62
		5631	1015	865	1
f62	4.67	5632	1016	897	
Dup 5630 Except 21 Hole 0035 4 Rings		5633	990	917	62
		5634	1011	930	1
f62	4.78	5635	982	897	
21 Hole 005 1½ Spiral - 5 Rings Req pack 10 24		5636	1150	740	63
		5637	1142	757	1
f63	3.1/2 KOH 4.66	5638	1145	740	1
Dup 5636 1½ spiral - 4 Rings		5639	1020	982	63
		5640	975	927	
	10 grms KCl. 4.70	5641	922	800	
21 Hole 005 1½ spiral 4 Rings 20 of 48 Req green		5642	935		64
		5643	943		
	4.49	5644	942		1

	100	150	200					
5621	920	820	830					
5622	910	853	817					
5623	917	847	813					
5624	773	733	690					
5625	666	620	677					
5626	623	583	567					
5627	872	875						
5628	895	890						
5629	840	780						
5630	907	915						
5631	915	900						
5632	950	927						
5633	980	975						
5634	977	960						
5635	977	950						
5636	685							
5637	625							
5638	665							
5639	995							
5640	990							
5641	837							
5642	925	872						
5643	915	862						
5644	900	850						

Set aside

Co

* Reading while hot shows 5651 group has higher cap than most other groups

21 Hole 005 1½ spiral 30 of 72 Req green 4 Rings 4.00	5645	882	886	64
	5646	866	795	
	5647	885	795	
21 Hole 005 1½ spiral 4 rings 40 of 96 Req green 3.89	5648	862	797	64
	5649	870	780	
	5650	863	820	
21 Hole 005 1½ spiral * Hard rubber showings 4 rings 3½ wt. 4.60	5651	950	910	63
	5652	962	962	
	5653	980	987	
Dup 5651 Except 100 mlg flour sulphur 4.70	5654	991	957	
	5655	983	942	
	5656	996	930	
21 Hole 005 1½ spiral 4 rings 10 of 24 g 4 Lb wt 4.84	5657	1020	980	63
	5658	1005	952	
	5659	988	952	
Dup 5657 4½ wt 4.95	5660	1047	1000	63
	5661	1050	985	
	5662	1043	1010	
Dup 5657 5 Lb wt 5.01	5663	1057	1007	6[illegible]
	5664	1048	995	
	5665	1056	1000	
21 Hole 005 1½ spiral 20 of 48 green 4 Lbs 4.39	5666	982	895	64
	5667	877	810	
	5668	968	895	

5661 } Hooper to run half in 25% NOH, worked
5663 } 2 grams LOH, then run on 5 min
4 times in the half then chg to 20% +
Run 4 or 5

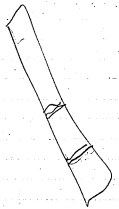
	100	150	200	250		
5645	785					
5646	830					
5647	815		CO			
5648	842					
5649	780					
5650	825					
5651	862	812				
5652	910	715				Chipped from KOH Run on board
5653	977	800				Hooper for Spell Sequent
5654	1000	965	890	827		
5655	972	945	880	840		
5656	970	940	863	800		
5657	1000	917	867	833		
5658	1030	1007	997	960		Set aside
5659	992	950	910	867		
5660	1030	995	933	907		
5661	1042	985	867	853		Hooper's Sequel
5662	1027	977	930	880		
5663	1037	1026	890	887		Hooper to sequent
5664	1032	1017	960	933		
5665	1030	1002	973	953		
5666	890					
5667	805		CO			
5668	912					

			Cold	50	
Dup 5666		5669	991	940	64
4½ lb cot	30	5670	987	912	
	4.69	5671	1021	945	
Dup 5666		5672	995	915	64
5 lb cot		5673	1027	912	
	4.64	5674	1030	927	
21 Hole 005 1½ spiral		5675	890	770	64
30 fl 72 Reg green		5676	938	820	
4 lb cot	4.05	5677	933	833	
Dup 5675		5678	932	845	64
4½ lb cot		5679	932	867	
	4.13	5680	922	850	
Dup 5675		5681	980	880	64
5 lb cot		5682	975	892	
	4.22	5683	971	875	
21 Hole 005 1½ spiral 4 rings		5684	877	797	64
40 f 96 Reg green		5685	910	800	
4 lb cot	3.96	5686	867	782	
Dup 5684		5687	922	845	64
4½ lb cot		5688	900	797	
	4.05	5689	920	822	
Dup 5684		5690	947	857	64
5 lb cot		5691	927	812	
	4.13	5692	937	855	

	100	
5669	945	900
5670	937	912
5671	970	862
5672	945	872
5673	945	850
5674	940	847
5675	770	
5676	830	
5677	807	
5678	850	
5679	887	
5680	842	
5681	877	
5682	892	
5683	880	
5684	800	
5685	790	
5686	750	
5687	862	
5688	767	
5689	840	
5690	872	
5691	810	
5692	870	

1 of 24

		Cold	50	
21 Hole .005 1½ spiral 20 of 48 green ½ wash not fict dried Low heat. 4 lbs 5.22	5693	1153	1032	64
	5694	1155	1000	
	5695	1187	980	
Dup 5693 4½ lbs 5.31	5696	1207	1012	64
	5697	1197	1035	
	5698	1195	1032	
Dup 5693 5 lbs 5.35	5699	1177	970	64
	5700	1191	892	
	5701	1205	967	
21 Hole .005 1½ spiral 4 rings 10 of 24 green single Tamps - fesds every Time Reg green 4.32	5703	1000	932	64
	5704	980	920	
	5705	990	920	
Dup 5703 single Tamps 20 of 48 Reg green 4 lb cot. 4.03	5706	830	765	64
	5707	850	770	
	5708	832	775	
Dup 5703 Single Tamps. 40 of 96 Reg green 5 lb cot 3.73	5709	785	750	64
	5710	757	717	
	5711	807	740	
21 Hole .005 1½ spiral 10 of 24 Reg green 4 rings Run in 33% KOH with 100 Mlg Sulphur 4.71	5712	1117	750	64
	5713	1142	800	
	5714	1152	797	
21 Hole .005 1½ spiral 10 of 24 Reg green 21% KOH 200 Mlg Sulphur	5715	1000	930	64
	5715½	1005	907	
	5716	997	937	



	100	
5693	987	902
5694	1012	962
5695	950	862
5696	1010	947
5697	1000	935
5698	1010	950
5699	942	855
5700	850	740
5701	925	830
5702		
5703	915	
5704	847	
5705	885	
5706	737	
5707	775	
5708	725	
5709	697	
5710	665	
5711	745	
5712	630	
5713	635	
5714	505	
5715	860	
5716	765	
	885	

Long 4" Tubes	5717	1374			68
21 Hole 005 1½ spiral	5718	1356			
10 of 24 Reg green. 6 rings	5719	1325			
not spinning made in Big mach	5720	1384			
19 D.S.	5721	1372			
	5722	1356			
68 average 7.12	5723	1336			
Dup of 5717	5724	1483			
Except green. No wash, filtered	5725	1447			
dried low heat. Ra 709	5726	1390			
16 D.S.	5727	1380			
	5728	1373			
	5729	1400			
68. average 7.80	5730	1443			
Dup 5717	5731	1510			68
½ wash not filter. dried low heat	5732	1443			
	5733	1460			
	5734	1447			
18	5735	1390			
	5736	1437			
average 7.71	5737	1443			
21 Hole 005 1½ spiral 5.29	5813	1069	687		67
3½ lot ½ wash not filter	5814	1042	650		
dried low heat, 4 ring 10 of 24 g	5815	1085	650		
27% NaOH. 2 gmd di OH					
709 RA 1-67					

5810
11
12

5717							
5718							
5719							
5720							
5721							
5722							
5723							
5724							
5725							
5726							
5727							
5728							
5729							
5730							
5731							
5732							
5733							
5734							
5735							
5736							
5737							
5813	527	Co					
5814	490						
5815	420						
	1437						

Notice flake used in 5813 Series 67 after dissolving out flake by KOH that it was a metallic Lithr. Lake Co flake whereas flake from Bad Lake is Bronze yellow like is of a Coarsing = Letter is the Tough Variety of flake number (10) 67 of Patents Kind flake —

		Cold	50	
25% NaOH	5816	1120	870	67
2 grms LiOH each cell	5817	850*	845	
5.15	5818	1000	825	
23% NaOH. 5.06	5819	1247	1042	"
2 grms LiOH each cell	5820	1275	1000	
	5821	1287	1042	1058
21% NaOH 5.15	5822	1196	1272	"
2 grms LiOH each cell	5823	1305	1272	
	5824	1277	1247	1334
19% NaOH 5.07	5825	1270	1300	"
2 grms LiOH each cell	5826	1252	1310	
	5827	1280	1310	1307
17% NaOH 5.12	5828	1272	1247	
2 grms LiOH each cell	5829	1232	1247	"
	5830	1247	1270	1255
15% NaOH 5.05	5831	1185	1192	
2 grms LiOH each cell	5832	1227	1292	"
	5833	1217	1247	1244
13% NaOH 5.15	5834	1217	1190	"
2 grms LiOH each cell	5835	1227	1190	
	5836	1215	1190	1198
11% NaOH.	5837	1172	1130	"
2 grms LiOH each cell	5838	1260	1112	
	5839	1207	1127	1165

15% Nutt
Highest after 150 Runs

	100	150	200			
5816	747					
5817	700					
5818	620					
5819	837	570	373			
5820	815	527	333			Responsible
5821	815	523	323			
5822	1090	717	533			
5823	1070	790	563			
5824	1110	810	563			Setback
5825	1217	947	650			
5826	1282	1033	753			3/2933 978
5827	1285	1027	717			
5828	1292	1140	843			
5829	1237	1083	877			3/2690 897
5830	1325	1127	883			
5831	1190	1170	1067	963		3/3090 1030
5832	1222	1247	1143	1067		
5833	1200	1190	880	903		
5834	1172	1100	980	893		
5835	1072	1040	873	797		Setback
5836	1107	1050	993	787		
5837	1032	957	877	723		
5838	1025	953	733	643		
5839	1010	967	847	787		

7/2067 686

6% flake = made by Reg Copperaum process
washed and distilled water only -
agitated, continuously + no cy =

3/3949
1316

			50	
9% NaOH	5840	1187	1115	6%
2 grms LiOH each cell	5841	1185	1087	
	5842	1180	1115	1106
21 Hole 005 1½ spiral 3½ lot.				
10 for 24 green ½ wash not filter	5846	1337	1375	"
dried low heat. 7 oz Rd. 5.18	5847	1337	1345	
27% KOH				
½ grm LiOH each cell	5848	1337	1365	1362
25% KOH	5849	1307	1302	"
2 grms LiOH " 5.19	5850	1320	1325	
	5851	1320	1322	1316
23% KOH	5852	1260	1297	"
2 grms LiOH " 5.23	5853	1227	1252	
	5854	1232	1275	1279
21% KOH	5855	1192	1232	
2 grms LiOH " 5.22	5856	1187	1212	"
	5857	1192	1220	1232
19% KOH	5858	1170	1210	
2 grms LiOH " 5.24	5859	1180	1180	"
	5860	1180	1247	1232
17% KOH	5861	1167	1187	
2 grms LiOH " 5.25	5862	1157	1187	"
	5863	1150	1175	1169
15% KOH	5864	1142	1127	
2 grms LiOH " 5.18	5865	1160	1147	"
	5866	1157	1142	1159

3)4067
1356

3)3237
1079

3)2896
965

X low voltage breakdown just
under 1000 volt —

	100	150	200	250	300		
5840	995	933	787				
5841	915	880	867				
5842	1000	943					
5843	1370	1303	1220	1243	1050		
5844	1370	1290	1080	1203	1067		
5845	1362	1307	1133	1133	1037		
5846	1317	1087	933	1223	1193		
5847	1350	1077	1080	1247	1133		
5848	1400	1073	883	1227	1100	3)3426 / 1142	
5849	1350	1327	887	1280	1153		
5850	1287	1247	533	1163	1110		
5851	1312	1310	1133	1220	1143		
5852	1232	1040	447	987	980		
5853	1210	1037	1007	1040	1057	3)3114 / 1038	
5854	1217	1057	920	1003	1077		
5855	1187	1100	817	990		3)3030 / 1010	
5856	1147	1077	497	977			
5857	1212	983	903	860			
5858	1000	977	890	823			
5859	1112	1020	923	663			
5860	1057	980	867	657			
5861	1010	823	833	622			
5862	1022	887	283	527			
5863	1030	823	780	733			

Set aside

Set aside

5864 to 5875
Some doubt about the last,
1st Run Good none had ~~LOOK~~
— by mistake —
Run 3 or 4 times & Total Change
& Everything done & found — from
above test

1 gm	13% KOH	5867	1180	1182	67
	2 grms LiOH each cell	5868	1162	1150	
	5.29	5869	1180	1150	1161
	11% KOH	5870	1140	1135	"
2 gm	2 grms LiOH "	5871	1180	1112	
	5.23	5872	1157	1140	1154
	9% KOH	5873	1097	1125	"
2 gm	2 grms LiOH "	5874	1120	1100	
	5.29	5875	1130	1100	1108
Dup 5846		5876	1080	850	"
	27% NaOH.	5877	1125	995	
for Holland	5.34	5878	1117	1050	
	25% NaOH	5879	1165	1042	
for Holland		5880	1167	1067	"
	5.26	5881	1180	1050	
	23% NaOH	5882	1130	1132	
for Holland		5883	1180	1032	"
	5.33	5884	1182	1050	
	21% NaOH	5885	1082	1012	
for Holland		5886	1122	1102	"
	5.38	5887	1120	1017	
	19% NaOH	5888	1162	1115	
for Holland		5889	1150	1117	"
	5.40	5890	1150	1092	

	100			250		
5867	1022	683	447	597		
5868	1045	800	783	640		
5869	1010	830	750	677		
5870	1025	773	697	503		Set aside
5871	987	780	277	493		
5872	1037	740	643	523		
5873	1037	703	413	560		
5874	982	653	520	450		
5875	980	600	467	417		
5876	840	670	440			
5877	880	757	467			
5878	933	697	357			
5879	1023	767	627			
5880	1000	783	627			Set aside
5881	963	797	680			
5882	1123	933	787			
5883	980	847	730			
5884	1067	850	693			
5885	950	830	693			
5886	1093	963	783			
5887	943	873	807			
5888	1057	953	857			
5889	1093	970	853			
5890	1057	947	843			

So that no yellow on, rubber

Note Capacity

So that all have just a slight yellow in places on rubber

17% NaOH. for Holland	5891	1135	1080	67
	5892	1185	1150	
	5893	1167	1142	
15% NaOH for Holland	5894	1170	1150	4
	5895	1212	1180	
	5896	1155	1127	
13% NaOH. for Holland.	5897	1170	1110	
	5898	1175	1110	1
	5899	1187	1187	
	5900			
	5901			
	5902			
	5903			
	5904			
	5905			
21 Hole 005 1½ spiral 4 rings 3½ cut – 4 rings 1½ ~~24~~ 29 grin before running on board turning lids against each 3 hours at 200 Then Run Reg 4,68	5906	1075		61
	5907	1075		
	5908	1067		
21 Hole 005 1½ spiral 4 Rings 3½ cut 1/2 wash not filler dried low heat 10 Cobalt f 24 1,768 540	5909	1180	1170	8
	5910	1182	1212	10
	5911	1180	1195	
21 Hole 005 1½ spiral 3½ 5 flak 1/2 thickness 29½ wash not filler, dried low heat 1,768 5,92	5912	1235	1167	
	5913	1215	1112	
	5914	1245	1160	

	100	150	200	250		
5891	1063	960	873			
5892	1140	940	903			
5893	1123	1047	953			
5894	1110	990	927			
5895	1150	1027	930			
5896	1110	987	867			
5897	1150	1050	917			
5898	1133	1050	793			
5899	1147	1050	850			2/3004/1001
5900						
5901						
5902						
5903						
5904						
5905						2/2724/908
5906	560					
5907	793					
5908	823					
5909	1140	987	983	967	947	timber blank swelled
5910	1150	1070	1077	1037	953	2 rings from above
5911	1163	973	907	890	830	Spalled 1 ring broke
5912	1083	1017	997	987		
5913	1030	943	890	873		
5914	1090	993	980	957		

50 Hot only faint patches yellow on Rubber

Phenomenon 5933 group Reg green after the reversal
attributed Reg Tone good average 1225 for
whole group – 4 1/2 min 4 gross

3457–8 in Pb. 20 to 80 mm Range 5 5 grms } Both from Hallam

3475 – Fermin Ammonia Sulfate

					67
Dup 5912		5915	1230	1130	
4 lbs wt	6.017	5916	1250	1100	
		5917	1267	1135	
Dup 5915		5918	1255	1115	
4 1/2 lbs wt	6.12	5919	1217	1130	
		5920	1232	1085	
Dup 5915		5921	1247	1027	
5 lbs wt	6.15	5922	1257	962	
		5923	1202	935	
21 Hole 005 1 1/2 spiral 10 x 24 7		5924	1192	1025	67
1/2 wash. not filter dried low heat		5925	1230	1085	
4 Rings 3 1/2 wt					
10 grms KCl capheell	5.26	5926	1232	1035	
Dup 5924		5927	1205	1085	67
4 lbs wt					
10 grms KCl		5928	1215	1060	
	5.36	5929	1195	1125	
21 Hole 005 1 1/2 spiral 3 1/2 wt 0		5930	1145	1072	66
4 rings 10 of 24 Reg. Wi –					
after 5 Runs run hot test reversed 0		5931	1170	1100	
all the time					
	4.61 0	5932	1142	1147	
21 Hole 005 1 1/2 spiral 0		5933	0	1097	68
Use hi. strip changed Reverse all time 0		5934	2	1065	
5 Hot time					
	4.5 0	5935	1	1085	
Hole 68					
Dup 5933 assembled with 3457–8 5 mm after	0	5936	1100	1120	
related than with Rev. reverse continuous 50 Hot					
Dup 5933 assembled with 3475 when Hallam		5937	1140	912	
other with Rev. reverse continuous 50 hot time 0					

	100	150	200				
5915	1063	990	993	Set			
5916	1010	917	910				
5917	1033	933	943				
5918	1003	903	917				
5919	1030	963	967				
5920	990	913	933				
5921	940	Co					
5922	887						
5923	783						
5924	895	797x	Co				
5925	950	817x					
5926	900	770x					
5927	962	843x					
5928	917	573x					
5929	950	857x					
5930	1033	617	Co				
5931	1053	660					
5932	1003	647					
5933	850	Co					
5934	883						
5935	900						
5936	823	887	Co				
5937	677	867					

Hopkinson Speed Expand

phenomenon

Long Comm.

21 Hole .005 1½ spiral 3½ cut 4 Ring 10 of 24 Req green. 21% KOH. 250 Mlg Glycerine 4.28	0	5938	1117	.962	6
	0	5939	1135	977	
	0	5940	1120	645	
21 Hole .005 1½ spiral Run on board 5 times then reverse Continuously 50 Hot runs Req green 19% KOH 4.60	0	5941	1097	1107	6
	0	5942	1110	980	
	0	5943	1120	1045	
Dup 5941 17% KOH 4.61	0	5944	1065	980	6
	0	5945	1072	1152	
	0	5946	1090	900	
Dup 5941 15% KOH 4.60	0	5947	1067	1125	6
	0	5948	1065	995	
	0	5949	1050	990	
Dup 5941 17% NaOH. 4.64	0	5950	1120	1172	6
	0	5951	1115	1150	
	0	5952	1092	1150	
Dup 5941 15% NaOH 4.62	0	5953	1075	1137	6
	0	5954	1050	1107	
	0	5955	1070	1125	
Dup 5941 13% NaOH. 4.61	0	5956	1012	1087	8
	0	5957	1020	1057	
	0	5958	1022	1105	
21 Hole .005 1½ spiral 10 of Cut 60/1000 wide No 2 green 4.93		5941	1122		6
		5972	1127		
		5973	1142		

100	100					
5938	790					
5939	800					
5940	880					
5941	937	633	Co			
5942	1027	650				
5943	960	653				
5944	963	653	Co			
5945	1080	717				
5946	1000	670				
5947	1067	737	Co			
5948	1033	683				
5949	1057	727				
5950	860	647	Co			
5951	1030	673				
5952	873	767				
5953	957	797	Co			
5954	953	800				
5955	1070	747				
5956	930	617	Co			
5957	857	637				
5958	907	727				
5971						
5972						
5973						

Hooper opac Sapiol

Pushed on hard

Rings Too loose yet,

Rings pushed by [illegible] action

but not as [illegible]

6202 Do have rings

[illegible]

Rings pushed on hand

Dup 5971		5974	1155	895	
Except green Thru 60 mesh		5975	1130	850	
fines all in					
	5.08	5976	1157	867	
Dup 5971		5977	1100	522	68
green thru 100 mesh		5978	1132	795	
	5.14	5979	1107	785	
21 Hole .005 1½ spiral		5980	1062	950	66
Ra 710 - Mass action		5981	1062	965	
10 of 249	4.53	5982	1040	872	
		5983			
		5984			
		5985			
21 Hole .005 1½ spiral No 2		5989	1300	1210	68
green Rings pushed on hand		5990	1187	980	
for fer	5.05	5991	1150	927	
21 Hole .005 1½ spiral No 2		5992	1162	1177	68
green	21% Kott 4.98	5993	1157	1197	
for Holland	2 grms of Off each oil	5994	1145	1193	
Dup 5992		5995	1125	1180	68
	17% Kott 4.97	5996	1120	1163	
for Holland	2 grms of Off "	5997	1120	1150	
Dup 5992		5998	1100	1133	68
	13% Kott 4.96	5999	1115	1153	
for Holland	2 grms of Off "	6000	1100	1123	

	100	150	200		
5974	713				
5975	673				
	6				
5976	693				
5977	820				
5978	597				
5979	603				
5980	853				
5981	860				
5982	780				
5989	817				
5990	837				
5991	780				
5992	1093	997	1027		
5993	1190	1103	1093		
5994	1173	1110	1117		
5995	1133	1063	1023		
5996	1087	980	997		
5997	1110	980	993		
5998	1060	937	960		
5999	1087	937	960		
6000	1087	980	977		

6017 tube never plated —

6 long Cans

Dup 5992	6001	1137	1063	68	
68f 21% NaOH. 5.08	6002	1110	1070		
for Holland 2 gms of OH each cell	6003	1125	1223		
Dup 5992	6004	1077	1237	68	
68f 17% NaOH 5.08	6005	1162	1253		
for Holland 2 gms of OH "	6006	1175	1323		
Dup 5992	6007	1135	1167	68	
13% NaOH 4.98	6008	1150	1160		
for Holland 2 gms of OH "	6009	1135	1157		
21 Hole .005 1½ spiral	6010	1145	965	70	
No 2 screen - 10 24 -					
Thru 30 mesh. fines all	6011	1127	992		
5.03	6012	1137	972		
Dup 6010	6013	1070	867	70	
Thru 40 mesh fines on	6014	1112	1000		
4.98	6015	1047	962		
Dup 6010	6016	1135	895	70	
Thru 50 mesh fines on	6017	1112	590	X	
5.06	6018	1142	907		
Dup 6010	6019	1107	917	70	
Thru 60 mesh fines on	6020	1112	817		
5.05	6021	1120	992		
Dup 6010	6022	1097	867	70	
Thru 80 mesh fines on	6023	1095	922		
4 lb cut 4.98	6024	1117	920		

	100	200				
6001	847	583				
6002	950	633				
6003	920	623				
6004	1100	940				
6005	1143	963				
6006	1173	1037				
6007	1013	820				
6008	1033	833				
6009	1004	820				
6010	907					
6011	953	Co				
6012	907					
6013	757	Co				
6014	927					
6015	883					
6016	797					
6017	933	Co				
6018	813					
6019	843					
6020	680	Co				
6021	873					
6022	743					
6023	817	Co				
6024	798					

Set aside

Tile misplaced

(6025) Grid never plated notice poor run –

708

			(Gas)	50	
Dup 6010		6025	1140	862	7D
Thru 100 mesh		6026	1140	935	
4.6 wt	4.89	6027	1180	955	
Dup 6010		6028	Wouldn't feed		
Thru 180 mesh		6029	Caked	inside –	
5.6 wt		6030			
Dup 6010		6031	1145	965	
Thru 20 mesh		6032	1177	935	
4.6 wt	4.83	6033	1180	925	
Req pack in Tubes 2 against one iron Ra 871 self Heat 5% H_2O	A	6010	1130		6A
	A	6011			
	A	6012	1230		
	A	6013			
Dup 6010 A, Except Ra 871 A Non pack 5% H_2O –	A	6014	1140	895	
	A	6015			
Dup 614 –	A	6016	1150		
	A	6017			
Dup 6010		6034	1175	895	7D
Green Thru 20 mesh		6035	1202	947	
4½ wt	4.93	6036	1202	957	
Dup 6010		6037	1185	992	7D
Thru 20		6038	1165	947	
5 lb wt.	5.0	6039	1215	1032	
Dup 6010		6040	1125	897	7D
Thru 40		6041	1127	842	
4.6 wt	5.05	6042	1130	840	

100

	6025	666	Co				
	6026	847					
	6027	860					
	6028						
	6029						
	6030						
	6031	897	Co				
	6032	853					
	6033	840					
A	6010	1300	Set aside				
A	6011	950					
A	6012	880					
A	6013	1365					
A	6014						
A	6015						
A	6016						
A	6017						
	6034	820	Co				
	6035	863					
	6036	850					
	6037	883					
	6038	883					
	6039	899					
	6040	787					
	6041	800					
	6042	767					

Might be Thallium as Tl. found in Lithia mineral

4.10

Tubes saturated KOH. got very red coating on tube after Count 60 rubbed off. Again Rep. tubes & off through in Transparent red that bleeds from grid.

6058 grams

50 Runs serically times yellow on Rubber + three mangnanese brown all Rubber PHENOMENON – Irons + grids bright pure Nickel Color – all yellow dif from Rep

Runs in our Dwaings –

6059 – after 100 Runs a brown red strongly adherent to tube + grid –

See next page

6060 Treated with 500 mlg NaP in Test tube 1" dia 5" long

D Long Cairo

Dup 6010		6043	1177	925	70
Thru 40		6044	1182	905	
4½ wt	5.12	6045	1167	897	
Dup 6010		6046	1190	1012	70
Thru 40		6047	1175	972	
5 Lbs	5.30	6048	1157	927	
21 Hole .005 1½ spiral		6049	1147		70
No 2 green 10 x 24 – 21% KOH		6050	1177		
2 gm Caesium hydrate		6051	1162		
Dup 6049		6052	1150	970	70
21% KOH	4.84	6053	1142	967	
2 grms Rubidium hydrate		6054	1147	892	
Dup 6049 21% KOH.		6055	1100	892	70
2 grms Beryllium hydroxide		6056	1110	920	
	4.85	6057	1125	920	
Dup 6049 21% KOH.		6058	1110	1007	70
Saturated KOH.		6059	1090	897	
	4.97	6060	1200	1132	
Dup 6049 15% NaOH.		6061	1125	1007	all the product sweated
Saturated KOH.		6062	1180	900	70 Co
	5.15	6063	1070	957	
21 Hole .005 1½ spiral		6064	1155	1030	70
RA 910 one wash not filtered		6065	1110	980	
dried high heat					
Mass action	5.11	6066	1105	915	

It looks as if 2 grms of LiOH. to 175 cc 21% predominated or at least dont come near to dissolve in KOH 21% any more than Reg KOH 21 but if LiOH is strong it comes from to dissolve very much more even more than 33% — KOH 21 saturated LiOH. dissolves more very much more than 33% — when hot contrary about Cold —

6059-A. put this in 100 cc Water with 100 mg/ HCl — for several hours on 1/4" asbestos on hot plate = in few minutes dingy red wipes off — both grid & lids — dont think it dissolved but HCl dissolved off something probably that made it loose after several hours Water was still acid — Notice black swelled & probably thru holes some — took out after washed it & put up with 2 1029 from 21% soaked 20 hours & then Run —

	100						
6043	800	Co					
6044	793						
6045	773						
6046	887						
6047	860						
6048	820						
6049							
6050							
6051							
6052	827	Co					
6053	833						
6054	793						
6055	880	Co					
6056	797						
6057	887		21%				
6058	847	Co	333				Put in 21% acc if comes out dont improve water
6059	830		450				
6060	503		400				
6061							
6062							
6063							
6064	957	Co					
6065	913						
6066	793						

o Long Cam

Dup 6064 RA 710 one wash filter dried high heat	6067	1122	1045	
	6068	1112	1047	
Mass action 4.67	6069	1095	995	
Dup 6064 RA 710 2 washes. not filter dried high heat	6070	1082	950	
	6071	1027	850	
Mass action 4.51	6072	1085	945	
Dup 6064 RA 710 2 washes filtered dried low heat.	6073	1077	937	
	6074	1092	965	
Mass action 4.66	6075	1100	960	
Dup 6064 RA 710 one wash not filtered dried low heat	6076	1125	1012	
	6077	1140	995	
Mass action	6078	1135	1012	
Dup 6064 RA 710 1/2 wash filtered dried low heat.	6079	1090	950	
	6080	1090	950	
Mass action	6081	1065	925	
Dup 6064 RA 710. No wash filtered dried high heat	6082	900	745	
	6083	920	692	
Mass action 4.71	6084	900	732	
Dup 6064 RA 710 1/2 wash not filtered dried low heat	6085	1075	683	
	6086	1082	820	
Mass action 4.94	6087	1110	600	
Dup 6064 RA 710 one wash filter dried low heat	6088	1075	917	
	6089	1090	867	
Mass action 4.52	6090	1095	890	

6067	967
6068	973
6069	900
6070	920
6071	910
6072	883
6073	853
6074	880
6075	880
6076	880
6077	867
6078	887
6079	843
6080	823
6081	733
6082	647
6083	577
6084	650
6085	
6086	
6087	
6088	
6089	
6090	

708 RA No 2 grain from now on Right -

21 Hole 005 1½ spiral No 2 grain thru 20 on 30 mesh fines out.	6091	1127	807	
	6092	1140	873	
4.86	6093	1147	863	
Dup 6091 thru 15 mesh on 30 fines out	6094	1137	840	
	6095	1142	897	
Rings forced on 4.85	6096	1152	907	
21 Hole 005 1½ spiral No 2 grain 5 flake 24 grain flake ½ thick 5.69	6103	1122	1213	
	6104	1137	1230	
21% KOH 2 grm di OH.	6105	1115	1190	
Dup 6103	6106	1237	1095	
15% NaOH	6107	1232	1053	
2 grm di OH. 5.68	6108	1200	1103	
Dup 6103	6109	1087	1107	
15% KOH	6110	1022	913	
2 grm di OH. 5.56	6111	1112	1097	
Dup 6103	6112	1212	967	
10% NaOH	6113	1247	960	
2 grm di OH. 5.62	6114	1250	1063	
21 Hole 005 1½ spiral - RA 710 mass action ½ wash filtered dried high heat.	6115	1025	900	
	6116	1027	957	
10 of 249 5.75	6117	1030	847	
21 Hole 005 1½ spl RA 710 - ½ wash not filter dried high heat Mass action	6118	995	690	50
	6119	992	733	
5.07	6120	990	680	

	100	150	200	250		
6091	697	Co				
6092	787					
6093	767					
6094	733	Co				
6095	823					
6096	897					
6103	1170	1147	1053	1087		
6104	1077	1177	1063	1117		
6105	950	1160	1090	1107		
6106	1133	1120	833	Silt		
6107	1067	1077	793			
6108	1133	1133	887			
6109	1047	1000	850			
6110	847	837	703	"		
6111	1050	1040	903			
6112	820	863	633	627		
6113	930	847	667	670	" Set aside	
6114	980	950	727	767		

6127 assembled 11 0 11 –

New Revolving arm in flake Hopper
probably flake a gram accurate
as it was cut from determination by dissolving
gram in KCy & weighing flake –

New filler revolving arms in flake hopper

70 fl 50 100

21 Hole .005 1½ spiral 2 wash not filter dried low heat. Mass action	6121	1072	873	
	6122	1075	823	
4.46	6123	1115	857	
Dup 6121 RA710 No wash not filter dried low heat Mass action	6124	975	733	
	6125	965	757	
470	6126	955	733	
Long Tube 21 Hole .005 1½ spl 31 green 10 fl RA709 ½ wash filter – dried low heat. 679	6127	1443		900
	6128	1447	Set aside	1188
	6129	1447		217
	6130			1
1358	6131			
Dup 6127 Long Tube	6132	1417		1108
	6133	1427	Set aside	1250
Average 6.71	6134	1427		1263
New filler – revolving arms in flake Hopper 21 Hole .005 1½ spl 10 f 24 gr. RA 2 gr 2571 21% KOH 2 L OH 1 gm aluminum	6137	17		
	6138	17		
	6139	22		
Dup 6137 15% NaOH 2 L OH 1 gm Aluminum	6140	20		
	6141	20		
	6142	20		
Dup 6137 21% KOH 2 L OH 500 mlg Aluminum	6143	892	197	
	6144	895	190	
	6145	800	159	
Dup 6137 15% NaOH 2 L OH 500 mlg Aluminum	6146	725		
	6147	550		
	6148	550		

6143	00	C					
6144	00						
6145	00						
6146							
6147							
6148							

Not 2 Rings hereafter smaller
& faced only by Machine —

Phenomenon

o Long Cells
70 f

Dup 6137		6149	25		
21% KOH.		6150	342		
2 LiOH.					
1 gm Iodide Potassium		6151	400		
Flat plate 3.2 graphite mix.		6152	447 737		
21% KOH. 2 gms LiOH.		To	509		
		6156	512 415		
Dup 6152		6157	982 574		
15% NaOH.		To	460 532		
2 LiOH.		6161	580		
21 Hole .005 1½ spiral —		6187	1082	847	
No 2 green 21% KOH.		6188	1095	953	
5 gms HgO — precipitated	5.35	6189	1117	950	
Dup 6187		6190	1095	973	
15% NaOH.		6191	1100	980	
5 gms HgO precipitated.	5.39	6192	1107	990	
Dup 6187		6193	1120	1123	
21% KOH.		6194	1092	1127	
2 gms LiOH	5.33	6195	1125	1163	
5 gms HgO					
Dup 6187		6196	1115	997	
15% NaOH.		6197	1105	1040	
2 LiOH.	5.30	6198	1122	937	
5 gms HgO —					
Dup 6187		6199	1000	767	
21% KOH.	5.62	6200	975	747	
3 gms Ferrous Hydroxide		6201	1032	700	
Dup 6187		6202	1002	1030	
21% KOH	5.59	6203	1000	977	
2 LiOH.		6204	1027	1010	
3 gms ferrous hydroxide					

456

		150	200			
6187	823	793				
6188	893	863				
6189	840	817				
6190	890	817				
6191	910	877				
6192	923	887				
6193	793	783				
6194	797	693				
6195	800	950				
6196	827	583				
6197	903	777				
6198	847	813				
6199	800	860	827			
6200	717	793	747			
6201	703	783	777			
6202	1043	1083	930	973		
6203	1000	1046	930	940		
6204	1033	1050	957	953		

Set aside

Set aside

Note diff in weight made by new Batch Nickel flakes,

21 Hole 005 1½ spl. No 2 green 10 of 24	6205	920	710	70
No 1 Position filler to the Right 10 from Zero	6206	937	717	
	6207	917	666	
70 flakes	6208	885	637	70
No 2 position 5.61	6209	897	557	
20 from Zero	6210	905	590	
78 flakes S weighing	6211	917	590	7
No 3 Position to Right 5.25	6212	1147	850	
30	6213	1142	783	6
78 f	6214	1145	800	7
No 4 Position 5.15	6215	1162	827	
40	6216	1117	797	
78 f	6217	1132	750	
No 5 Position 5.13	6218	1132	800	
50	6219	1087	750	
21 Hole 005 1½ spl. No 2 green 10 X 24	6220	1035	777	70
78 f 21% KOH. 5.60	6221	975	843	
3 gm Acetone	6222	957	617	Co
Dup 6220	6223	940	940	70
21% KOH	6224	1000	963	
2 " OH	6225	942	950	
3 gm Acetone				
Dup 6220	6226	1045	1007	70
15% NaOH.	6227	995	1017	
2 " OH	6228	1132	1067	
3 gm Acetone				

6220	667	Co
6221	683	
6222	483	
6223	653	Co
6224	790	
6225	853	
6226	630	Co TAE — Hooper working only not [illegible] as they have covered [illegible] — 4[illegible] — 1060 —
6227	917	
6228	983	

6232 = Note large amount Red deposit on 1 50 Ring gms off for month and
Ruggero = Tubes clean

Dup 6220					
15% NaOH.	9	6229	1057	997	70
3 gms acetone	9	6230	1017	780	Co
	9	6231	1015	967	
Dup 6220	9	6232	975	887	70
21% KOH.	9	6233	965	927	Co
3 gms formate K.	9	6234	960	810	
Dup 6220	9	6235	950	927	70
21% KOH	9	6236	957	977	
2 LiOH.	9	6237	962	967	
3 gms formate K					
Dup 6220	9	6238	1032	917	70
21% KOH.	9	6239	1002	823	
3 gms Ammonia	9	6240	995	840	
Dup 6220	9	6241	970	997	70
21% KOH.	9	6242	990	967	
2 LiOH.	9	6243	970	980	
3 gms Ammonia					
		6244			
		6245			
		6246			
		6247			
		6248			
		6249			
Dup 6220	9	6250	827	200	70
21% KOH.	9	6251	940	860	Co
3 gms Acetamide	9	6252	887	267	

				250	
6229					
6230					
6231					
6232	873				
6233	887	Set aside			
6234	777				
6235	903	950	850	877	
6236	950	1000	953	860	
				826	set aside
6237	903	970	907	847	
6238	817				
6239	733	Co			
6240	800				
6241	787				
6242	790	Co			
6243	900				
6250	267				
6251	400	Co			
6252	333				

6259 – 6278 Run on hot test as follows
Chg 6½ h at 270 Run at 240 –
Same as long tubes are run at on hot test –

6271 – 2 & 3 Idm spare to Epport taking out when chgd a lot at body heat & Run –

21 Hole 005 1½ S No 2 green 10.5% KOH – 7½% NaOH, 2.5% LiOH. 10x24	8	6253	962	1007	74
	8	6254	957	993	
	8	6255	950	930	
No 5575-6-7 with new nickel tubes No 2 green run again in 30% KOH. to see if Fe was cleaned by previous 33	8	6256	975	533	6
		6257	975	533	
	8	6258	992	580	73
21 Hole 005 1½ S – No 2 green 24x10 – 27 tubes one steg mix iron 5 grms – 21% KOH.	8	6259	1380	1390	
	8	6260	1385	1390	
	8	6261	1380	1380	
Dup 6259 21% KOH. 2 LiOH	8	6262	1385	1525	
	8	6263	1380	1570	
	8	6264	1300	1525	
Dup 6259 15% NaOH. 2 LiOH.	8	6265	1455	1460	
	8	6266	1350	1485	
	8	6267	1280	1435	
Dup 6259 15% NaOH. 3 grms LiOH.	8	6268	1360	1575	
	8	6269	1325	1520	
	8	6270	1320	1480	
Dup 6259 15% NaOH. 3 grms Bromide K	8	6271	1400	1435	
	8	6272	1375	1425	
	8	6273	1380	1435	
Dup 6259 15% NaOH. 3 grms KOP	8	6274	1400	1475	
	8	6275	1370	1445	
	8	6276	1400	1445	

on high rate 6265 group 487
475
500.

6268 625
500
362

Whereas KOff much higher
Double —

6271 group the 15% 1/2 the KOff
6274 group on high rate
Even less —

So to not like KOff —
that hurts but the KOff —

X Reg 1308

	100			
6253	997	1077	890	Set unusable
6254	987	1067	953	
6255	830	1003	783	
6256	423			Co
6257	467			
6258	467			
6259	1360	1365		
6260	1300	1260		
6261	1340	1300 X		
6262	1560	1545		
6263	1575	1555		
6264	1560	1480		
6265	1490	1350		Set unusable
6266	1465	1165		
6267	1395	1150		
6268	1565	1400		
6269	1520	1270		
6270	1480	1290		
6271	1400	1395		
6272	1385	1355		
6273	1370	1390		
6274	1390	1400		
6275	1395	1365		
6276	1370	1375		

Trans —
Runs Cold

Dup 6259 15% NaOH. 3 grms NaBr.	6277	1450	1445
	6278	1450	1450
	6279	1450	1430
Dup 6259 15% NaOH 3 grms NaCl.	6280	1480	1450
	6281	1350	1365
	6282	1390	1400
Dup 6259 21% KOH. 3 grms KBr	6283	1475	1370
	6284	1475	1400
	6285	1425	1295
Dup 6259 21% KOH. 3 KCl.	6286	1490	1360
	6287	1400	1325
	6288	1495	1450
Dup 6259 21% KOH. 3 NaB	6289	1490	1380
	6290	1450	1360
	6291	1450	1380
Dup 6259 21% KOH. 3 NaCl	6292	1895	1400
	6293	1440	1450
	6294	1370	1265
Dup 6259 21% KOH. 3 Chlorate K	6295	1500	1375
	6296	1420	1325
	6297	1420	1290
Dup 6259 21% KOH. 3 NaCl	6298	1455	1330
	6299	1485	1375
	6300	1475	1400

6277	1495	1430				
78	1495	1460				
79	1445	1400				
6280	1465	1375				
81	1385	1330				
82	1415	1360				
83	1310	1185				
84	1375	1320				
85	1235	1185				
86	1285	1230				
87	1345	1300				
88	1375	1300				
89	1345	1330				
6290	1330	1290				
91	1335	1290				
92	1435	1260				
93	1390	1330				
94	1315	1295				
95	1335	1295				
96	1300	1235				
97	1280	1235				
98	1290	1245				
99	1340	1280				
6300	1380	1335				

Retarde

Grams

Dup 6259 15% NaOH. 3 Chlorate K	6301	1425	1395
	6302	1430	1400
	6303	1475	1450
Dup 6259 15% NaOH. 3 Chlorate Sodium	6304	1455	1430
	6305	1425	1480
	6306	1470	1435
Dup 6259 21% KOH. 300 mlg Brimstone 2 grms LiOH. 2 each add	6307	1440	1575
	6308	1500	1620
	6309	1460	1565
Dup 6259 15% NaOH. 300 mlg Brimstone 2 grms LiOH.	6310	1470	1585
	6311	1415	1500
	6312	1415	1570
Dup 6259 21% KOH. 3 grms Fluoride K	6313	1385	1360
	6314	1355	1330
	6315	1350	1335
Dup 6259 15% NaOH. 3 Fluoride Sodium	6316	1420	1480
	6317	1355	1400
	6318	1405	1460
Dup 6259 21% KOH. 3 grms Borax	6319	1400	1465
	6320	1285	1300
	6321	1370	1385
Dup 6259 15% NaOH. 3 grms Borax	6322	1200	1400
	6323	1375	1400
	6324	1375	1480

6301	1395	1396				
02	1400	1355				
03	1480	1435				
04	1460	1400				
05	1480	1385				
06	1430	1345				
07	1600	1465				
08	1675	1540				
09	1675	1465				
6310	1680	1300				
11	1600	1435				
12	1685	1485				Set on side
13	1325	1300				
14	1300	1175				
15	1300	1310				
16	1490	1400				
17	1400	1200				
18	1453	1385				
19	1410	1375				
6320	1280	1290				
21	1300	1285				
22	1430	1340				
23	1375	1375				
24	1446	1400				

Grams.

Dup 6259 21% KOH. 3 gr Nitrate K	6325	1415	1295
	6326	1385	1355
	6327	1400	1330
Dup 6259 21% KOH. 3 grm Nitrate Sodium	6328	1360	1385
	6329	1390	1350
	6330	1400	1380
Dup 6259 15% NaOH. 3 grm Nitrate K	6331	1335	1400
	6332	1390	1480
	6333	1335	1430
Dup 6259 15% NaOH. 3 grm Nitrate Sodium	6334	1315	1305
	6335	1295	1350
	6336	1345	1385
Dup 6259 21% KOH. 3 grm Metaaluminate Soda	6337		
	6338	Cancelled	
	6339		
Dup 6259 15% NaOH. 3 Metaaluminate Soda	6340		
	6341		"
	6342		
Dup 6259 21% KOH. 3 grm Chloride Lithia	6343	1405	1525
	6344	1375	1500
	6345	1375	1530
Dup 6259 15% NaOH. 3 grm Chloride Lithia	6346	1430	
	6347	1445	
	6348	1390	

Nitrates Bad
for 6325
or feedup
NO

6325	1200	1125				
26	1225	1200				
27	1265	1170				
28	1270	1200				
29	1230	1170				
6330	1285	1230				
31	1385	965				
32	1445	1000				
33	1315	850				
34	1285	785				
35	1275	790				
36	1315	800				
37	[illegible]	705				
38	[illegible]	[illegible]				
39	[illegible]	[illegible]				
6340						
41						
42						
43	1495	1485				
44	1495	1490				
45	1520	1515				
46	1480	1340				
47	1425	1180				
48	1450	1180				

Refeed

	Iron		
Dup 6259 21% KOH. 3 gr. Carb K	6349	1420	
	6350	1370	
	6351	1455	
Dup 6259 15% NaOH. 3 Carb Soda	6352	1420	
	6353	1425	
	6354	1365	
Dup 6259 21% KOH. 3 Carb K 2 LiOH.	6355	1435	
	6356	1480	
	6357	1400	
Dup 6259 15% NaOH. 3 Carb-Soda 2 LiOH.	6358	1430	
	6359	1465	
	6360	1425	
Dup 6259 21% KOH. 3 Chloride Zinc	6361	1475	
	6362	1410	
	6363	1490	
Dup 6259 15% NaOH. 3 gm Chloride Zinc	6364	1390	
	6365	1370	
	6366	1505	
Dup 6259 21% KOH. 3 gm Chl Manganous.	6367	1490	1335
	6368	1485	1300
	6369	1335	1200
Dup 6259 15% NaOH 3 Manganous chloride	6370	1335	
	6371	1300	
	6372	1200	

	100					
6349	1245	1270				
50	1200	1150				
51	1275	1250				
52	1330	1270				
53	1345	1300	na			
54	1255	1130				
55	1495	1520				
56	1550	1560				
57	1500	1520				
58	1370	1100				
59	1525	1065	na			
6360	1455	1000				
61	1400	1200				
62	1390	1125				
63	1585	845				
64	1365	865				
65	900	900	na			
66	1280	1050				
67	1360					
68	1250					
69	1065					
6370						
71						
72						

Gefazidi

Note Carbonate na on Meth

Dup 6259	6378			
21% Koff.	6374			
3 Nitrate Lead	6375			
Dup 6259	6376			
15% Naoff.	6377			
3 Nitrate Lead	6378			
21 Hole 005 1½ s No2 green	6379	1045	873	70
12 flake 24 green	6380	1025	797	Co
21% Koff. 5.40	6381	1020	783	
Dup 6379	6382	832	630	70
14 flake 24 green	6383	825	628	Co
21% Koff. 5.31	6384	852	697	
Dup 6379	6385	907	912	76
6385 dipped in formate Paraoff.	6386	742	750	Co
6386 10% Naoff also in Naoff			1005	
6387 Bisulfite Paraoff. 5.69	6387	997		
21 Hole 005 1½ s No2 green	6388	917	627	76
green under bell jar week	6389	940	680	Co
	6390	987	673	
21 Hole 005 1½ s spiral 10 of 24 No2 green	6391	1015	1003	70
12% Naoff. 3 gms di off each off.	6392	1037	997	
5.53	6393	1055	1040	
Dup 6391	6394	1027	977	70
10% Naoff	6395	1012	950	
3 gms di off. each off				
5.62	6396	1020	947	
Dup 6391	6397	935	1057	70
8% Naoff	6398	182	1088	
Saturated with di off	6399	897	1000	
5.63				

576

6398 Come OK in 21% Koff.

	100	150	
6391	953	883	Co
6392	960	877	
6393	1000	890	
6394	957	880	Co
6395	950	850	
6396	953	853	
6397	893	693	Co
6398	897	693	
6399	817	933	

Dup 6391					
5% NaOH	8	6400	515	953	70
	8	6401	440	997	
Saturated with LiOH. 5.57	8	6402	632	1020	
Dup 6391	8	6403	562	1013	70
3 NaOH. 5.55	8	6404	417	1023	
Saturated with LiOH.	8	6405	752	883	
Dup 6391		6406			70
13% NaOH 5.60		6407			
5 from Thallium Hydroxide Each cell		6408			
Dup 6391		6409			70
13% NaOH		6410			
2 from Thallium Hydroxide Each cell - 5.63		6411			
Dup 6391		6412			70
21% KOH		6413			
2 from Thallium Hydroxide 5.60		6414			
Dup 6391		6415	510		70
Saturated Solution		6416	630		
Li OH in water 5.53		6417	630		
21 Hole 005 1½ spiral 10 of 24		6418	670		70
Berg 80 97 green use same		6419	630		
slide but change adjustment		6420	640		
21% KOH 5.17					
21 Hole 005 1½ spiral		6421	975	987	70
75 flake 18 green No 2		6422	930	690	
		6423	907	673	

Cathode above

all but Ground Glass

Removed this one

6400	797	707	Co
6401	793	690	
6402	763	663	
6403	817	667	Cd
6404	820	657	
6405			
6406			

Dup 6421 5 flake 12 No 2 green	6424	885	613		
	6425	875	593		
	6426	932	666		
21 Hole 005 1½ spiral 10 flake 24 green Berge No 98 Bout change adjustment 5.38	6427	807	Removed dirt do much good		
	6428	775			
	6429	787			
21 Hole 005 1½ spiral Burrs not ground down so much first bit made 10 of 24 No 2 green no eyelet	6430				
	6431				
	6432				
Dup 6430 2d deep burr ground only a little – no Eyelet	6433				
	6434				
	6435				
Dup 6430 Burrs not ground at all no eyelet	6436				
	6437				
	6438				
a 999 10% B_2O_3 – 21 Hole 005 1½ spiral Thru 28 needle fines off in 24 green 10 flake dont change shade adjustment, 21/f – KOH. 5.39	6439	722	760	760	
	6440	730	760	770	
	6441	745	763	780	
21 Hole 005 1½ spiral 2½ wt 4 rmp 10 flake 24 Berge No 99 10% B_2O_3 99 Pt. either adjustment or change 2 – Thru 28 fines in 21/f KOH	6442	650	740	673	
	6443	647	730	700	
	6444	665	743	713	
Dup 6442 Berge No 96	6445	667	790	780	
	6446	700	777	733	
	6447	703	790	667	

SG slightly brown

6455 a little
6459 good deposit.
6462 Heavy deposit
6461 Deposit black
6459 seemed a trace
6460 a little

When 1st taken out only 6462 = 61 show deposit
the other same - Ni bright
but after being in air a while
turned as bad 6457 black

	hrs	24				
6457	0		8	dead		
58	0			dead		
59	50			dead		
60	0			brown		
61	50			dead		
62	50			dead		

Dip analysis. Ti plated easy on Reverse at 24 hours on Ni strip
2nd dip = 33% gets deposit X
all other times all poor or but not so much
1 gram KOH. is next to 33%
58 & 59 gets smaller. 21% only little
as 6459 is equivalent in some manner to 33% & Sulphuric KOH helps strip. The tested X deposit.

6457	0.0069
58	0.0078
59	0.0135
60	0.0092
61	0.0200
62	0.0080

100 grms NO2 green hex. 109 milligrm Ni SO4

2 Hoke 005 1½ spiral 10 of 24 NO 2 green soaked in water 24 hours then air dried - 21% KOH.	6448			
	6449			
	6450			
Dip 6448 - Except 21% KOH, Saturated KOH each cell	6451			
	6452			
	6453			
Dip 6448 Except 15% NaOH, Saturated KOH each cell	6454			
	6455			
	6456			
2 Reg 72 Ni strip 21% 2 grms KOH	6457			
2 " " " 3 grms KOH	6458			
2 " " " saturated KOH	6459			
2 " " " 1 gram KOH.	6460			
2 " " " 33% KOH.	6461			
2 " " " 2 grms KOH.	6462			
2 Hoke 005 1½ spiral 3½ wt NO 2 green 33% KOH saturated with KOH.	6463	885	727	78
	6464	967	750	0
	6465	955	660	
Dip 6463 - 27% KOH. Saturated KOH.	6466	1130	760	78
	6467	1185	727	0
	6468	1185	693	
Dip 6463 21% KOH, Saturated KOH.	6469			
	6470			
	6471			

Echum Test
for plating now out of solution

				Co
Dup 6463 15% KOH saturated LiOH.	6472	950	873	883
	6473	962	887	887
	6474	950	1003	937
Dup 6463 11% KOH, Saturated LiOH.	6475	930	1030	943
	6476	907	997	850 Co
	6477	917	993	950
Dup 6463 - 24% NaOH, saturated LiOH	6478	Cancelled		
	6479			
	6480			
Dup 6463 21% NaOH, saturated LiOH	6481	Cancelled		
	6482			
	6483			
Dup 6463 15% NaOH, ~~saturated~~ LiOH	6484	Cancelled		
	6485			
	6486			
Dup 6463 9% NaOH, Saturated LiOH.	6487	Cancelled		
	6488			
	6489			
Dup 6205 - 1st position to Left 10 from Zero	6490	1087	843	75 Co
	6491	1072	830	
	6492	1112	883	
Dup 6205 - 2nd position 20	6493	1147	830	75 Co
	6494	1132	927	
	6495	1147	843	

From 6505 – put up with nos
Changed + Relinked – separately –

Dup 6205 3rd position	6496	1115	857	7
	6497	1147	870	
	6498	1075	767	
Dup 6205 4th position	6499	1050	797	7
	6500	1050	730	C
	6501	1050	753	
Dup 6205 5th position	6502	1037	743	7
	6503	1007	666	
	6504	1030	757	

21 Hole .005 1½ spiral 3½ wt 1 of 24 No 2 green 21% KOH. Somerhoff (Changed nos)	6505	
	6506	
	6507	
~~21 Hole~~ .005 1½ spiral 3½ wt 8 flake. 24 No 2 green 21% – Somerhoff	6508	Cancelled
	6509	
	6510	
21 Hole .005 1½ spiral 3½ wt 7 ~~flake~~ 24 No 2 green 21% KOH. Somerhoff	6511	Cancelled
	6512	
	6513	
21 Hole .005 1½ spiral 3½ wt 10 flake 24 No 2 green 21% KOH Saturated Somerhoff	6514	Cancelled
	6515	
	6516	
21 Hole .005 1½ spiral 3½ wt 8 flake 24 No 2 green 21% KOH. Saturated Somerhoff	6517	Cancelled
	6518	
	6519	

all nos changed & Relinked
Jackie —

Dup 6505 7 flasks 24 No 2 grown Somewhat opp. 21% NaOH, better than Li OH	6520 6521 6522			
21% NaOH 1½ grams 46 cc of 10 of 24 grown 15% NaOH. 3 grams Li OH Each cell	6523 6524 6525			
Dup 6523 15% NaOH. 4 grms Li OH Each cell.	6526 6527 6528			
Dup 6523 15% NaOH. 5 grms Li OH. Each cell.	6529 6530 6531			
Dup 6523 15% NaOH. 6 grms Li OH Each cell	6532 6533 6534			
Dup 6523 15% NaOH. 7 grms Li OH Each cell.	6535 6536 6537			
Dup 6523 13% NaOH. 7 grms Li OH Each cell	6538 6539 6540			
Dup 6523 11 grms NaOH. 7 grms Li OH Each cell	6541 6542 6543			

Dup 6523 15% NaOH. 4 grms 1.0H Each cell Reverse twice during hot run	6544 6545 6546			
Dup 6529 15% NaOH. 7 grms 1.0H Each cell Reverse twice during Each hot run	6547 6548 6549			
Dup 6523 21% KOH. 2 grms 1.0H Each cell RUN COLD	6550 6551 6552			
Dup 6523 21% KOH. 4 grms 1.0H Each cell RUN COLD	6553 6554 6555			
Dup 6523 21% KOH, Saturated 1.0H Run Cold	6556 6557 6558			
Dup 6523 21% NaOH 2 grms 1.0H Each cell RUN COLD	6559 6560 6561			
Dup 6523 21% NaOH, 4 grms 1.0H. Each cell P RUN COLD	6562 6563 6564			
Dup 6523 21% NaOH, Saturated 1.0H. RUN COLD	6565 6566 6567			

Dup 6523 15% NaOH. 2 grms LiOH Each cell RUN COLD	6568 6569 6570			
Dup 6523 15% NaOH. 4 grms LiOH. Each cell RUN COLD	6571 6572 6573			
Dup 6523 15% NaOH. Saturated LiOH. RUN COLD	6574 6575 6576			
Dup 6523 21% KOH. 5 grms LiCl 5 grms Bromide Sodium Each Cell.	6577 6578 6579			
Dup 6523 - CP Nickel Strip no Fe 6580 - 1 gram LiOH 21% 6581 2 " " " 6582 21% Saturated LiOH.	6580 6581 6582			
6583 - 33% KOH. 6584 21% KOH. 6585 15% NaOH.	6583 6584 6585			
Dup 6523 21% KOH 5 grms Lithia Chloride Each cell — 2 Reg Fe	6586 6587 6588			
Dup 6523 15% NaOH. 5 grms Lithia Chloride Each cell 2 Reg Fe	6589 6590 6591			

		Cold	50	
Dep 6523 - 21% KOH saturated with Lithium Carbonate —	6592			
	6593			
	6594			
Dep 6523 15% NaOH, saturated Lithium Carbonate.	6595			
	6596			
	6597			
Regular flat pockets 1 Bucket to 2 irons 21% 2 gms LiOH Each cell -	6598	535	273	
	6599	530	307	
	6600	532	243	
21 Hole .005 1½ of mat 3/16 Regular graft 1 Nickel in 1% - 21% 2 gms LiOH each cell	6601			
	6602			
	6603			
Dep 6523 The tubes to be assembled in a grid that is not nickel plated but has Ecis stripped off along the edges to clean them - 2 Reg irons	6604			
	6605			
	6606			
21 Hole .005 1½ spun of 3½ No 2 green — 21% KOH - Tubs connected Electrically with the can — run hot and cool -	6607			
	6608			
	6609			
Dep 6607 21% Iron Connected Electrically with the Can run hot and cool	6610			
	6611			
	6612			
Dep 6607 33% Iron connected to the Can —	6613			
	6614			
	6615			

Dep 6607 – 33% KOH, Jubs Connected electrically to the Cone	6616 6617 6618			
Dep 6607 21% KOH, 2 grms LiOH Saturated – Reversed once week ago. Later gets 1000 mil amp but returns after 10 hrs, charged	6619 6620 6621			
Dep 6607 – 15% NaOH 2 grms LiOH. Reversed once week Like 6619	6622 6623 6624			
Dep 6607 21% KOH, 1 grm Lithium Chloride Saturated	6625 6626 6627			
Dep 6607 21% 2 grms Lithium Chloride Saturated	6628 6629 6630			
Dep 6607 21% 3 grms Lithium Chloride Saturated	6631 6632 6633			
5289 Treated with very weak HCl to pink centrifuged washed etc. Looks clean	6634	792	783.	800
Dep 6607 – dump green then simple Jump – then dump flecks angle Jump – no end	6635 6636 6637			150
Old 2431 – soaked KOH out then Co. with HCl then soaked that out, then KOH –	6638		650	640

1 = Machine running too fast on dump time flake w some
2 Burrs not ground some -
3 - tubes not a nice size
4. Tubes inside not good surface
5 Position good calls up strain favorable
6 - Segregation in big LiOH,
7 Mechanical condition flake
8 Bad surface to flake
9 No porosity grain - tube swells - gets out contact
10 - " - not enough KOH conc to permit chg
11 With porosity LiOH, swell it + make good contact + circulation.

426 | 9622
4520
1742
2420
2426

Notebook, N-07-06-00

Weight of new Ni
pocket grid —
4.83 grams —

1 lb 1 oz —

William H. Hasey
STATIONER
Good Work Prompt
48 WILLIAM STREET
NEW YORK

June - 1907

Kitchen Book Machine

is adjusted with flake feed 20 to left + Taper ledge after ni dump + get best mixing possible as shown by micro —

The flake from Dep 6678 to ——— ——— is fine except a deposit attach in battery which is ~~made~~ on 1/2 of the pieces + may result in bad contact —

N. Cells are dry flake
Cells are dry flake
New mixing distributed 20 to left
Wedge distributed, empty pinnd.
6678 4 pieces

		Each cell	60 hr.	100 hr.
Dup 6678 — 21% 005 1½ Spiral - 3½ cut 10 mf 24 x 02 green	6681	1033	983	957
21% KOH. 1 gram LiOH	6682	1050	1033	997 Co
Each cell —	6683	1033	987	913
Dup 6678	6684	980	917	920
21% KOH. 500 milg LiOH	6685	980	933	963
Each cell -	6686	1013	933	970
Dup 6678 -	6687	1000	480	533
17% NaOH. - 1 gram LiOH.	6688	1010	827	717 Co
Each cell -	6689	1057	887	767
Dup 6678	6690	1050	830	717
17% NaOH. 500 milg LiOH.	6691	1050	863	817 Co
Each cell.	6692	1010	650	613
Dup 6678	6693	1013	1107	1037
27% KOH. 2 gram LiOH.	6694	1013	1107	1063
Each cell - RUN COLD	6695	1070	1123	1117
Dup 6678	6696	1030	1103	1063
27% KOH. 1 gram LiOH.	6697	967	1020	980
Each cell RUN Cold	6698	980	1043	993
Dup 6678	6699	Hoop fell apart		
21% KOH. 2 gram LiOH	6700			
Each cell - RUN COLD	6701			
Dup 6639	6702	983	"	
21% KOH. 1 gram LiOH	6703	987		
Each cell RUN COLD	6704			

150

6681			
6682			
6683			
6684	927		
6685	970	Set made	
6686	957		
6687			
6688			
6689			
6690			
6691			
6692			
6693	1050		
6694	1093		
6695	1177	Set made	
6696	1097		
6697	967		
6698	980		

All has Clearly Plates

Dup 6638 -	6665			
21% KOH, Removed hot 2	6666			
days against the strip when				
assembled by [illegible]	[illegible]			
21 Hole 005 plated with Nickel	6666			
Twice as much as usual -	6667			
21% KOH, saturated with LiOH.	6668			
Dup 6666 -	[illegible]			
21% KOH, 2 gms LiOH,	[illegible]			
2 each cell	[illegible]			
Dup 6639	[illegible]			
Assembled with Nickel strip	[illegible]			
or Removed strips -	[illegible]			
21% KOH Hot -	6674			
Dup 6639 -	[illegible]			
Assembled with strips				
Removed cap 21% KOH,	[illegible]		50	100
2 gms LiOH 2 each cell	[illegible]			
21 Hole 005 1 to spiral 24/102 9/	6678	933	827	833
Horn 30 - 10 Jewelled 9/ [illegible]				
[illegible] [illegible] - Cauler -	6679	933	770	773
Navy 20 Cell 1 gm test in [illegible]				
gms - 24 gms	6680	923	783	800
Dup 6678	6705			
21% KOH.	6706			
Power off	6707			
Dup 6678	6708			
21% KOH, 2 gms LiOH,	6709			
Power off	6710			

All has already fired

Dup 6678	6711		
27% KOH. 2 gms LiOH.	6712		
Dome off.	6713		
Dup 6678	6714	953	950
21% KOH. 100 Milg LiOH each cell	6715	977	960
RUN COLD	6716	980	977
Dup 6678	6717	977	987
21% KOH. 200 Milg LiOH each cell	6718	957	970
RUN COLD	6719	970	973
Dup 6678	6720	987	1037
21% KOH. 500 Milg LiOH each cell	6721	957	1037
RUN COLD	6722	960	990
Dup 6678	6723	980	1030
21% KOH. 1 gm LiOH each cell	6724	997	1033
RUN COLD	6725	973	1033
Dup 6678	6726	973	983
21% KOH. 2 gms LiOH each cell	6727	963	1017
RUN COLD	6728	953	1027
Dup 6678	6729	990	1041
21% KOH. 3 gms LiOH each cell	6730	977	1030
RUN COLD	6731	993	1047
Dup 6678	6732	933	897
27% KOH. 1 gm LiOH.	6733	970	1017
RUN COLD	6734	930	917

	100 flat	150	200	250	300	350
6711						
6712						
6713						
6714	983	1010	1050	1030		
6715	997	1036	1067	1050		
6716	987	1043	1077	1057		
6717	1027	1050	1083	1060		
6718	1000	1010	1057	1050		
6719	997	1027	1067	1050		
6720	1067	1073	1110	1110		
6721	1053	1063	1110	1100		
6722	1007	1027	1063	1073		
6723	1010	1027	1057	1067		
6724	1033	1050	1060	1093		
6725	1043	1050	1083	1100		
6726	987	970	967	1050		
6727	1013	1010	1043	1063		
6728	1017	1010	1043	1067		
6729	1030	1040	1060	1053		
6730	1017	1010	1020	1027		
6731	1043	1047	1060	1053		
6732	867	853	877	937		
6733	993	950	970	980		
6734	867	867	900	940		

Sopher	2	3	4	5
6741	957	977	977	
6742	930	1010	1077	
6743	993	1010	1006	
6744	1000	1033	1030	
45	987	1007	953	
46	890	1000	1017	
47	633	700	727	
48	620	687	700	
49	630	693	700	
6753	690	750	757	
54	610	653	657	
55	573	633	657	
56	550	593	617	
57	577	633	657	
58	750	840	840	

Sal eligd 15 21K 2 ADH

		50 lbs	100
Dup 6678 27% KOH. 2 gms KOH. RUN COLD	6735		
	6736		
	6737		
Dup 6678 27% KOH. 3 gms KOH. RUN COLD	6738		
	6739		
	6740		
Dup 6678 Sampling Cole 21% KOH. 2 gms KOH. put up with 2 5 gms urea New process No 2 7% 10% H2O — 100 Smith 75 Comp — Digestion Run before urea	6741	967	997	993
	6742	1013	1047	1047
	6743	997	1013	1023
Dup 6678 27% KOH 2 gms KOH. Sal No 2 New mix urea 10% H2O. 5 gms urea 6741	6744	1030	1043	1010
	6745	967	967	900
	6746	1017	1027	1013
Dup 6678 21% KOH. Run Reg No 2 New process urea after Sal that put 2 gms KOH through	6747	927	773 X	927
	6748	907	733 X	890
	6749	927	733 X	890
Dup 6678 21% KOH. Run Reg use Reg urea	6750			
	6751			
	6752			
21 Hole 005 - 3 gm 1½ spread — 10 No 2 H2O oleacky — put up with Nickel strip as received 2 times w/out. overcake) & then put up with Reg urea 5 gms urea — 1 — 60 ml 21% KOH after sampling 2 KOH	6753	917	790 X	867
	6754	940	687 X	823
	6755	927	698 X	820
Dup of 6753 — Put flake of oleacky kind from Hydrogen Run with Ni strip same as 6753	6756	900	647 X	783
	6757	983	690 X	847
	6758	997	867 X	887

	150	200		
6741	973			
6742	1030	CO		
6743	973			
6744	1033			
6745	930	CO		
6746	980			

	50 Kol 1	2	3	4	5	
6759	643	700	780			
60	667	733	800			
61	717	773	727			
6765	613	660	690			
66	593	640	640			
67	713	773	783			
68	640	690	707			
69	983	990	993			
70	693	810	843			
71	907	933	867			
6772	1060	1000	970			
73	623	890	883			
74	610	623	640			
75	760	877	877			
76	763	880	833			
77	333	823	800			
78	700	770	787			
79	610	667	687			
80	713	783	800			

Loaded 6774 Hopper 5 Lot.

			50	100
Drop of 6753 – best streaky flake used that has Nitric H + also in Copper dof again – 21%.	6759	997	747	Co
	6760	1050	787	
	6761	1067	850	
Drop 6753 – Reg streaky flake – adequate which 2 more run Reg in 21% KOH.	6762	880		
	6763	883	Lost a coil	
	6764	930		
Drop of 6759 – Except 2 more + run Reg – 21% KOH.	6765	1060.	730	Co
	X			
21 Hole 005 32 73 flake 5 2 mm Hopper offered N+2 grms 30 mesh 10 f 24 8 21% – 5.50	6766	897	667	Co
	6767	920	823	
	6768	913	733	
Drop 6766. 767 21% KOH. 2 grms Li OH each coll. 5.48	6769	990	1000	980 Co
	6770	997	883	863
	6771	960	890	857
Drop 6766 Except 27% NaOH 2 grms Li OH. 5.49	6772	987	977	823
	6773	1007	923	896 Co
	6774	993	633	483
Drop 6766 21% KOH 1 grm Li OH 5.51	6775	990	917	983 Co
	6776	993	863	953
	6777	947	813	867
Drop 6766. Bad 60% 20 size Ni flake not Thin H 21% KOH 5 flake 24 N+2 grm 6.28	6778	953	827	Co
	6779	1003	727	
	6780	1027	847	

6781	623	667	690			
82	544	600	630			
83	433	497	500			
84	460	520	523			
85	460	530	533	opened delumps	flake	
86	467	600	640	Sp'd the open accounts to be all flake		
87	643	730	747			
88	887	733	917			
89	590	637	657			
90	843	927	933			
91	873	917	900			
92	687	753	757	Lawyer Loading		
93	600	660	667			

Reading flake & open
Reports to company
E. C. C.

After 6792 = Lawyer Loading

Drop 6766	6781	940	733	Co
143 But Top Cap w only Cu'd w not pressed in mix 5.39	6782	933	667	
Strongly flake broken up by fingers 1 of 24 oz gram —	6783	793	547	917 Co
142 5.58	6784	800	560	Edem -
Strongly flake broken by fingers then treated Hot calloid with Pen 21% KOH.	6785	820	567	to E
149 5.51				
Same as 6785 Except 100 Billy Hgo mixed with 3.666 gm Iodized hand broken flake strongly II 21% KOH 5.78	6786	883	667	to E
153				
73 f 6 gram flake 200 Billy Hgo Unbroken Acetoid flake strongly Iodized. 21% KOH 5.43	6787	977	783	CO
150				
Drop 6787 but 21% KOH. 3 gram Iodide 5.42	6788	1013	917	877 Co
151				
73 f 10 of 48 oz 21% KOH. Or Copper pulls 4 cc of Hg Cl2 in 175 cc Sol. 5.43	6789	887	690	CO-
163				
Drop 6789 - Same but and 6789 but add 2 gram Iodide, 2 chloride 5.38	6790	1000	953	967 C
156				
Same as 6789 - 21% KOH. Same as 6789 Hg Cl2 5.42	6791	977	920	967 Co
150				
Tip Strongly flaked, run from Copper Jet wire by 160 gram than Tamp flake then Tamp - 6.04	6792	963	797	Co
Drop 6792 - but 73 flake 5.64	6793	893	700	Co
158				

	500 lot			
6794	763	767	783	
95	527	567	570	
96	623	700	720	
97	600	660	683	
98	670	717	750	
99	733	818	837	
6800	707	777	790	
6801	637	703	717	
6802	767	860	883	
6803	703	767	899	
6804	793	860	877	
6805	733	787	800	
6806	667	730	733	
6807	707	770	770	

6805 will have to change slide as 9 (Think 3 flake wide for uniqueness - should be longitudinal grooves + thus end for done by using thinner slide -

6808	667	727	750	
6809	620	703	713	
6810	543	600	633	
6811	707	790	807	
6812	633	707	720	
6813	600	667	693	

Lawyer Loading 75 flakes

180 Dup 6792 but 71 strokes ff- not again trouble 5.44	6794	1013	827	Co
138 Dup 6792 - 73f plunger wet Such Temp - 5.78	6795	800	600	Co
21 Hob 005 3-2 10 f/no 75-but flake up but HCl only - not H - No 2 green 30 week 21½ Kon. No 2 7z 6 green - 5.49 Ribbon green - 1022 7z Flake enthusiastic glaze -	6796	1020	773	Co
185	6797	993	720	
	6798	1020	800	
Dup 6796 Except 8 flake 24 green 5.91 green to dump 75 only [illegible] for 1022 7z	6799	1080	883	Co
185	6800	1063	847	
	6801	1043	767	
Dup 6796 Except 5 ff 24 gr 75f 5.84 No 2 7z 6 gr 1022 7z	6802	1120	927	Co
195	6803	1153	847	
	6804	1157	920	
Dup 6796 Except 3 flake 24 gr 6.29 No 2 7z 1022 7z 10 dump gr 38 wet jump	6805	1173	833	Co
186	6806	1177	793	
	6807	1170	817	
Dup 6796 Except 6 ff 18 green 1022 7z 5.79	6808	1030	790	Co
179	6809	1050	787	
	6810	1033	657	
Dup 6796 - Except 18 green 4 ff 1022 7z 6.15	6811	1130	860	Co
180	6812	1080	770	
	6813	1083	733	
Dup 6796 Except 18 gr 2 ff ake 6.41 1011 No 2 from 5 green 17	6814	1223	800	Co
184	6815	1167	807	
	6816	1150	800	

	Shot 1	2	3	4
6820	527	600	633	
6821	590	667	693	
6822	587	663	677	
6823	620	687	700	
6824	550	627	647	
6825	563	633	660	
			1022 7½	
6826	790	800		
27	720	760	1011	
28	640	680		
29	700	750		
30	640	700		
31	707	777		
32	683	733		
33	790	860		
34	633	727		
35	1067			
36	1140			
37	1140			
38	1160			
39	1157			
40	1173			

flake broke up higher in layer — to drill — more coherent flake

These 2 groups with L.OH running lower than Reg - L.OH says the last made up more kettles - has more in it - turn in going to more gels - when L.OH and gel - gel get small - wrong —

L.OH called everything up, some left L.OH and all off flake

Layer Loading 75 ft

21 Holes 0.05 3½ x 1½ x 30 inches				
Flake 1 from Hydrogen - cut glass -	6817	1100	680	
17 1½ 3½ L.OH - from Tamp flake	6818	1050	640	
Tamp - 21½ Kett. broke at H.				
18 from 2 flake	6819	1053	643	
drilled w/flake 2 [illegible] 1011 7.59				
Dup 6817 3 feet	6820	1120	660	
Except 18 gr 4 flake	6821	1127	733	
180 flake not high enough H. 1022 7½ 6.21	6822	1100	727	
Dup 6817 3 feet	6823	1017	753	
Except 18 green 6 flake	6824	1030	693	
181 flake not high enough L.H. 1022 7½ 5.81	6825	1017	713	
Dup of 6820 - with some flake	6826	1130	867	
broke up higher head in Hydrogen	6827	1147	910	
good - to 6 ft 1987 ft	6828	1130	783	
183 Tamp 30 from 5/16 6.138				
Dup of 6826 with some	6829	1130	850	
flake broke up higher in	6830	1117	823	
184 layer - to 5 ft —				
Tamp from 5/16 5.97	6831	1123	877	
21 H. 0.05 3½ 24 x 1½ x 30 inches	6832	1133	823	
30 - 5 soft Tamp H.	6833	1150	910	
185 Dup Layer Loading 1 flake 1011 Rn from	6834	1150	837	
6.09				
Dup 6832	6835	1035	1113	1010
Except 1 gram L.OH.	6836	1063	1090	1010
174 6.05	6837	1060	1090	1067
Dup 6832	6838	1023	1110	1077
Except 2 gram L.OH.	6839	1003	1107	1050
163 6.11	6840	1020	1137	1090

	100	150	200	250	300	350
6835	1020	1037	1093			
6836	1053	1020	1057	Co		
6837	1143	1073	1113			
6838	1177	1130	1133			
6839	1130	1087	1067	Co		
6840	1127	1097	1100			

75 flake plain Cyanide process with H.F.
Sorbent
Water wash after Cyanide –

6841	793	850
42	793	877
43	823	877

With 3 Stamps 44 hours

Stamps lined up – stricken heavy blow "II" 1 knock 2 rebounds –
75 f Mouth now fits Contour of groove
Sticks to it. Groove compressed so it looks very groove like old Regular –

83 flake

Stamps had several aches to behind here
Stem galvanized or Buffed End –

Larger Loading
New lined up rod heavy blow 75 f

		50	75
21 Hole 005 3½ 1½ 6pl –	6841	1127	950
191 7 flakes 5 soft Hg Pirrigan 24 No 2 green	6842	1130	963
1011 Rd Groove Mouth 5.92	6843	1133	973
21 Hole 005 1½ soft 3½ 75 f Mouth H. soft Stamp to groove fillum Contour – 6 f 24 No 2 Hungarian flakes – Sides very hard Mouth 5 Stamp	6844	1107	983
183 7 flakes Rd 1011 f. 5 groove Larger loading green Mouth 20 – 5.964	6845	1107	967
	6846	1063	933
Drop 6844 Except 7 flakes 24 gr 182 5.93	6847	1087	973
	6848	1080	953
	6849	1083	963
Drop 6844 Except 8 flakes 24 green – 194 5.57	6850	1090	953
	6851	1077	947
	6852	1080	940
Drop 6844 Except 6 f 24 green 75 f Not Mouth Hungarian 176 5.95	6853	1013	833
	6854	1017	847
	6855	1020	867
Drop 6844 Except 7 flakes 24 green No 2 flakes 75 Not Mouth Hungarian 5.86	6856	1013	850
	6857	1017	850
	6858	1057	903
Drop 6844 Except 8 f 24 No 2 green 75 f Not Mouth 5.73	6859	1017	847
	6860	983	830
	6861	1020	880
Drop 6844 Except 21 f 6 Roll 2 green 2 soft 75 f 5.99	6862	1070	1150
	6863	1077	1153
	6864	1067	1150

850		
850		
787	Co	
773		
887		
863	Co	
843		
853		
893	Co	
887		
833		
847	Co	
867		
850		
850	Co	
903		
847		
830	Co	
880		
1083		
1127	Co	
1050		

100 —

6862	990	Co
6863	1107	
6864	1017	

~~Stolen~~

* More flake turned up against tube
when fresh — feel of them — dirt
found to hand — frozen flood but not
so much above more flake in each
dump the flake was only a little
from the cracks of tube & 1 of the tubes
Workers guess. Cannot say. Think to well
in with the contract right along

83 flake Cyanide process Cold wash
Wash — distilled —
Width 44/100
84 flake [redacted] Cup 200 in Kg
Good Rel
Soft — Tube 12 hours in 4 changes
Distilled H_2O wash — Cuey fine left water

75 pf

Daily Grading

Dump	New dump up and down hardened - pleished -	25 Hot		
Dump 6844 Except 6 f 24 No 2 gr ft 75 not thru H - 2 green 1.0 H. 179	6865	1060	1103	Co
	6866	1087	1133	
	6867	1077	1113	
21 Holes cost 1½ spl 3½ wt - 75 ft thru H soft - 4 only 75 flake thru H soft. 16 only No 2 green thru 20 - 21% Koh. 179 6.01	6868	1090	907	G
	6869	1097	953	
	6870	1100	903	
* Dump 6864 Except 36 green 10 ff 75 Thru H Soft. 21% Koh. 179 5.85	6871	1043	930	G
	6872	1053	960	
	6873	1057	927	
Dump 6868 24 Green thru 20 7 flake No 75 thru H - Rare Nickel gold rod not flat 21% Koh. 186 5.85	6874	1093	960	Co
	6875	1087	960	
	6876	1090	980	
21 Holes cost 1½ spl 3½ 4 flake No 75 thru H soft 36 No 2 green thru 20 21% Koh. 174 6.19	6874	1083	913	Co
	6878	1080	907	
	6879	1070	913	
21 Holes cost 1½ spl wt. 36 No 2 green 4 flake No 75 thru H soft - 2 weak CP Nickel flattened from 8½ rows to 25 rows in open 2 rows thick 2 (very dirty) left the flake cost time by hand - 10 cent of flake cover 2 inches each 3/16 hard [illegible] with 21% Koh. 175 5.93	6880	1053	937	G
	6881	1057	950	
			8	
Dump 6850 Except 24 green 7 flake No 75 thru H soft - 2 in lines each dump - 21% Koh.	6882	987	863	G
	6883	980	850	

100

6865	1097	CO
6866	1107	
6867	1083	

Lemon Loaded

25

21 Hole 005 1½ spirit 3½ wt. No 2 green mixed with 10% by wt of Chloride Potash — thru 50 hours on 100 — Used 24 mig thru mixer like No 75 Health. put — 21½ cent dec 48 hours then put — from KOH 180 J.34 green	6884 6885 6886	997 977 920	910 910 857	Co
Dup 6884 — Except 5% by weight Lithium Carb ground impalpable 24 mix of mix 7 flake No — thru Hydrogen + Dank 48 hours dont change the KOH send up steam	6887 6888 6889	Cancelled		
21 Hole 005 1½ spl 3½ wt 708 RA. green — 5% by weight Chloride Potash ground impalpable mixed mixed — dank 24 hours change KOH dank 24 hours more change KOH send up steam — 24 mix mix 7 flake 84 Hemy. 181 Stirling — 5.91 mix 5.61 green	6890 6891 6892	1006 1017 1027	870 903 933	Co
Dup 6890 Except 15% KCl. 5.72 mix mixed with No 2 708 RA green mix ground green 84 Health. 4.69 190 1011 RA 75 — soaked twice 24 h each. 21½ KOH.	6893 6894 6895	986 933 903	910 893 863	Co
Dup 6890 — Except 20% KCl. 1029 RA 75 — 5.72 mix 185 5.57 green	6896 6897 6898	830 847 867	790 820 850	Co
Dup 6890 Except 30% KCl — 1029 RA 75 5.63 mix 3.94 green 186	6899 6900 6901	670 620 677	650 593 660	Co

KCl, and
Lower loads

			25	75	
Dup 6890 10% KCl- RA 1029 Fs. 5.90 mip	6902	1000	930		Co
156 5.31 grm	6903	990	893		
	6904	977	913		
21 Hole .005" 1½ opl- 5% KCl RA 708 grm-KCl-unpolished powder RA 1029 Fs. 24 @ mip 71 flakes flake 8 9 Thick 11-2 Mr opl = Imple Ionity - South Tunic 24 - Rum 33% 10 drop flakes 6½ 5.67 grm	6905	880	633		Co
	6906	885	627		
	6907	883	633		
Dup 6905 10% KCl- powder 33% KOH 5.36 grm	6908	837	597		Co
158	6909	833	563		
	6910	843	550		
Dup 6905 soft flake 84 15% KCl- powder 33% KOH. 5.13 grm	6911	880	593		Co
169	6912	843	560		
	6913	883	593		
Dup 6905 = soft 84 5% KCl powder 21% KOH 2 grms/l. OH. 5.79 grm	6917	917	1027	1047	Co
161	6918	933	1027	1010	
	6919	940	1027	1037	
Dup 6905 10% KCl powder 21% KOH 2 grms/l. OH. 5.59 grm	6920	940	1000	1020	Co
163	6921	913	990	1027	
	6922	887	973	990	
Dup 6905 15% KCl powder 21% KOH 2 grms/l. OH. 5.23 grm	6923	817	930	943	Co
155	6924	817	913	97	
	6925	813	920	937	

6917	1053	Co		
6918	1000			
6919	1007			
6920	1000	Co		
6921	993			
6922	953			
6923		Co		
6924				
6925				

flake cut with flour

Hollands measurements show all nickel flake gives very low contact Res between flakes. fraction of ohm practically nothing

Old way means the levelled ledge for press the ⊓L stress + the instrument by way of the flake slight Tap from a wooden dump before press introduces Resist = press sensor smart tap 237 dim change 2 degrees handpress + released from New mould flakes show larger than normal Ford —

86 is good flake Copper [illegible] — Klay would often Re-shunt — [illegible] then distilled H_2O finally boiling water Tough perfect flake

Hyd is brighter than with Hcl

86 flake gives more bounce to plunger than yes = at least more bounce than 6941 drop head —

Split open pocket 6941 shows flake turning up 6 with edges more even than Zero of index —

* 5 degs left is Zero the way machine was so its put to 15 to left which is nearly 10 —

Layer loading

	25 Ton	25 Ton	Yield
21 Kohl 005 1½ = 24 No 2 grain 708 RA thru 20 fines — 10 of by Key grain No 75 not thru Hydrogen 2 Stress flake 2 ½ lbs wet flat 237 dim change 2 degrees handpress flake released from press 5.34 grain 2½% Koth.	6932	950	883	Co
	6933	953	867	
	6934	957	883	
Drop 6932 21½ KOH, 2 grain Koth — 75 not H. 5.35	6935	917	957	953 Co
	6936	913	957	938
	6937	883	933	900
Drop 6932 475 not H — 33% KOH, 5.33	6938	713	543	Co
	6939	733	530	
	6940	747	600	

Old way loading

21 Kohl 005 - 1½ 2½ weight — 10 of No 75 not H grain 24 No 2 grain 708 RA — thru 20 fines in Old way Loading Double tap 3 Index Zero Level Edge dividing for press — ⊓L Stress — tap 3 237 ohms Edge polished — hand press flake 2½% KOH, 5.30	6941	893	827	Co
	6942	953	883	
	6943	940	910	
			25 Ton	
Drop 6941 21½ KOH 2 grain Koth, each cell — ~~Drop~~ # flake No 86 not H 2½ not Index Zero 5.21	6944	1000	1027	1010
	6945	1027	1030	99[illegible]
	6946	1030	1053	1030
Drop 6941 flake Index 10 degrees to left 21% KOH, flake No 86 not H; 5.20 2½ not	6947	970	830	Co
	6948	947	780	
	6949	960	827	

flake cut with glove

$2\frac{1}{2}$ lb cut

			26 Thou	75 HH
Dup 6941	6950	1020	1027	993
198 10 degrees To left 6 cut 21% KOH	6951	1020	1037	997 Co
2 grams di OH each cell 5.18	6952	1050	1057	1017
flake No-86 $2\frac{1}{2}$ wt not H				
Dup 6941	6953	980	873	Co
191 20 degrees To left -	6954	950	787	
21% KOH, flake 86 not H $2\frac{1}{2}$ wt 5.15	6955	1020	877	
Dup 6941	6956	1037	1013	997
20 degrees To left - 21% KOH.	6957	1027	1000	980 Co
203 2 grams di OH each cell.	6958	1040	1047	1017
flake No-86 not H. $2\frac{1}{2}$ wt 5.10				
Dup 6941 -	6959	950	793	Co
30 degrees to left 21% KOH.	6960	937	787	
198 flake No-86 not H. $2\frac{1}{2}$ wt 5.12	6961	920	727	
Dup 6941	6962	1023	1017	Co
30 degrees To left -	6963	1023	997	
21% KOH 2 grams OH each cell -	6964	1023	977	
201 flake No 86 not H. 5.09				
Dup 6941 - Except 86 flake	6965	1013	867	Co
through Hydrogen 21% KOH.	6966	1017	883	
187 Zero index $2\frac{1}{2}$ wt 5.43	6967	1013	890	
Dup 6941 Except 86 flake thru	6968	1013	1053	1023
192 Hydrogen 2 grams di OH	6969	1010	1037	1000 Co
each cell -				
21% KOH Zero index 5.38	6970	1013	1027	1007
Dup 6941 - Except 86 flake thru	6971	1067	983	Co
Hydrogen	6972	1047	940	
10 degrees To left,	6973	977	810	
21% KOH, $2\frac{1}{2}$ wt 5.32				

flake at with glows

7 flake

2 1/2 lb wt

			25 Tot	48 Hi
Dup 6941 Except 86 flakes Thru H. 10 degrees To left 21% KOH. 2 grms LiOH each cell — 2 1/2 wt 5.43	6974	1030	1010	1000
	6975	1040	1013	983
	6976	1060	993	970 Co
Dup 6941 — 86 flakes Thru H. 20 degrees To left — 21% KOH. 2 1/2 wt 5.30	6977	1073	940	
	6978	1050	880	Co
	6979	1048	793	
Dup 6941 86 flakes Thru H. 20 degrees To left. 21% KOH, 2 grms LiOH 2 1/2 wt 5.31	6980	1053	1063	1050
	6981	1050	1057	1037
	6982	1040	1063	1050 Co
Dup 6941 86 flakes Thru H — 30 degrees To left. 21% KOH. 2 1/2 wt 5.43	6983	1010	820	
	6984	1000	857	Co
	6985	993	857	
Dup 6941 86 flakes Thru H. 30 degrees To left 21% KOH 2 grms LiOH, 2 1/2 wt 5.45	6986	1060	980	
	6987	1007	977	Co
	6988	1013	987	
Dup 6941 Except 10 deg To left 7 flakes 86 not thru H. 21% KOH 2 1/2 wt 5.54	6989	1027	900	
	6990	1013	843	Co
	6991	1013	910	
Dup 6941 Except 10 deg To left 7 flakes 86 not thru H. 21% KOH 2 grms LiOH. 2 1/2 wt 5.57	6992	1033	1091	1020
	6993	1030	1040	Co 1013
	6994	1027	1040	1017
Dup 6941 Except 20 deg To left 7 flakes 86 not thru H. 21% KOH - 2 1/2 wt 5.50	6995	1060	1023	
	6996	983	867	Co
	6997	967	813	

100

6974	957	G
6975	920	
6976	907	

6980	963	G
6981	910	
6982	977	

6992	1027	G
6993	1027	
6994	1027	

86-Cop pressure weak Koy after weak
Chin H_2O then Boiling H_2O — Tough flake

$2\frac{1}{2}$. 28 wt

			25 Hot	35
Dup 6941 20 deg to left 7 flake 86 not thin H. 21% KOH. 2 grms d_1 OH. $2\frac{1}{2}$ wt 5.51	6998	1007	1037	1000
	6999	1037	1063	1040 Co
	7000	1020	1087	1000
Dup 6941 - 10 deg To left 7 flake 86 Through Hydrogen 21% KOH. $2\frac{1}{2}$ wt 5.69	7001	1067	977	956
	7002	1093	1055 Co	1017
	7003	1067	957	917
Dup 6941 10 deg To left 7 flake 86 Through Hydrogen 21% KOH. 2 grms d_1 OH. $2\frac{1}{2}$ wt 5.71	7004	1063	1087	1027
	7005	1073	1100 Co	1020
	7006	1060	1103	1057
Dup 6941 - 20 deg To left 7 flake 86 Through Hydrogen 21% KOH $2\frac{1}{2}$ wt 5.66	7007	1023	930	Co
	7008	1020	887	
	7009	1030	940	
Dup 6941 20 deg To left 7 flake 86 Thru Hydrogen 21% KOH. 2 grms d_1 OH. $2\frac{1}{2}$ wt 5.57	7010	1063	1107	1060
	7011	1067	1103 Co	1037
	7012	1067	1113	1067
Dup 6941 Except 10 deg To left 86 f Not Hydrogen 1/4" thru 20 mesh 1/2 thru 50 mesh with 7 flake 24 wt 2 grms 7048RA 21% KOH. 5.57	7013	983	903	Co
	7014	990	907	
	7015	1013	937	
Dup of 7013 21% KOH RUN COLD 5.56	7016	963	1010 Co	963
	7017	890	1067	1023
	7018	993	973	970
Dup 7013 21% KOH 2 grms d_1 OH Each cell 5.52	7019	1067	1067	1000
	7020	1047 Co	1060	993
	7021	1043	1067	1000

	100
6998	1013
6999	1060
7000	1027
7001	
7002	
7003	
7004	1060
7005	1050
7006	1093
7010	1063
7011	1087
7012	1107
7016	950
7017	997
7018	950
7019	1017
7020	1003
7021	1007

X 7031 - Lot 24% KOH by mistake.

Green 708 same lot as been used for following time's w not fill low heat, but from Big Drum's full - has not absorbed much water or probably imitates 708 used in the KOH Series with LiOH in the 5800 Series —

Note: green absorbs a gross iff H_2O according to Temp + humidity of the air probably due to NaOH which RA says can't be wrong but, its probably hydrated of this is cause H_2O absorption | to Carbonate

Possibly older green gets the worse. It is the NaOH, becoming Carbonate.

Yes, it does get Carbonated

Z $\frac{1}{2}$ lb cell

			25 Kat	50	
Dup 6941 - Except 10 deg to left - Reg 86 flake not 1st Drum H. 7 flake 24 N02 green Use old loose rings put on by hand - 21% KOH. 5.55	7022	997	893	820	C
	7023	1013	977	837	
	7024	993	943	920	
Dup 7022 16 21% KOH, RUN COLD 5.56	7025	1000	993	993	Co
	7026	997	977	960	
	7027	997	987	990	
Dup 7022 21% KOH, 2 grms of OH each cell 190 5.55	7028	1047	1080	1050	Co
	7029	1053	1080	1027	
	7030	1047	1080	1053	
* Dup 6941 - Except 10 deg to left. 86 flake not Drum H. 7 flake 24 N02 green 170 Old Regular rings 708 Drum 21% KOH. 5.59	7031	957	830		C
	7032	953	800		
	7033	953	827		
Dup 7031 179 21% KOH, RUN COLD Old rings - 5.55	7034	957	923	887	
	7035	990	953	930	
	7036	1030	970	940	
Dup 7031 167 21% KOH 2 grms LiOH. Old rings 5.410	7037	1027	1043	933	
	7038	993	1060	920	
	7039	1023	1023	933	
Dup 6941 Except 10 deg To left 86 F Not Hydrogen - N02 green from Pasting drum - 708 RA - 24 grms of flakes. 21% KOH 5.52 173	7040	997	890		Co
	7041	933	827		
	7042	960	847		
Dup 7040 21% KOH. RUN COLD	7043	980	953	927	Co
	7044	963	950	937	
5.52	7045	990	1000	967	

100

7025	983	Co
7026	957	
7027	967	
7028	1063	Co
7029	1057	
7030	1057	
7034	863	Refused
7035	920	
7036	933	
7037	950	
7038	860	
7039	950	
7043	907	Co
7044	933	
7045	960	

Weighed out 10 grms 708 from bottle,
on watch glass put on hot plate 1/2 hour one
sheet filter paper between —
Then weighed diminished 120 milgrams
1.2% lost, after 13 hours gained 80 milg
when on scales with door open —
10.080 — Then set watch glass out
on table & in 2 hours more
went to 10121 milg — 3 hours after
10.108 — = 12 hours after 9.987 —
although in the air — The humidity last night
was not only down temp (all 20 deg this and this
morning This may be seasonal

X Notice the dirt grown only gives one
bounce — and not --- | like all
previous —

Took 10 grms from big drum then 20 grms in
2 hours on watch glass on hot plate three filter paper
between — weight — 9.915 lost 85 milg.
in 2 hours on ~~[illegible]~~ air regained lost &
weighed 10.106 or gain 1% milg —
12 hours after weight 10.048

Make fresh penny
7044 — 3 days time at old weight holler green drum now
7057 — 3 days time at old weight holler green drum now
Each time [illegible] Double Compt only
Each time [illegible] these 3 groups —

			25 lost	75
Dup 7040	7046	957	1030	1000
1% Run 21% KOH, 2 grms di OH	7047	977	1037	1000
Each cell —	7048	977	1037	997
2 1/2 ct. 5.56				
Dup 6941 Exceed 10 to left —	7049	1057	913	870 50
86 flake not then 8 grms 708 grms	7050	1050	893	857
10 g drum, 3 hours hot plate	7051	1057	990	957
2 1/2 ct 21% KOH 3 lbs 5.59				
Dup 7049 —	7052	1057	1033	1027 50
21% KOH RUN COL	7053	1040	1033	1033
2 1/2 ct. 3 lbs 5.52	7054	1063	1040	1027
Dup 7049	7055			
21% KOH 2 grms di OH Fresh cell	7056			
3 lbs	7057			
Dup 6941 Exceed 10 to left —	7058	1057	997	950 50
86 flake through 2 ct — 8/08	7059	1050	1000	983
10 g drum — 7 ct 2 1/2 grms	7060	1063	1007	980
21% KOH 2 1/2 lbs 5.58				
Dup 7058	7061	1073	1017	980 50
21% KOH, RUN COL	7062	1077	1033	1007
2 1/2 lb 5.55	7063	1063	1013	997 75
Dup 7058	7064	1063	1117	1073
21% KOH 2 grms di OH Fresh cell	7065	1073	1110	1040
2 1/2 lb 5.55	7066	1067	1093	1047
Dup 7058	7067	1073	1123	1103 50
21% KOH 2 grms di OH Fresh cell	7068	1073	1113	1103
2 1/2 lb RUN COL	7069	1073	1127	1113
5.49				

100

7046	1017	Co	
7047	1033		
7048	1020		
7052	1017	Co	
7053	1030		
7054	1020		
7067	1113	Co	
7068	1130		
7069	1120		

When burn properly ground

The tube walls are 10/1000 thick,

7082	797	963	967	970	
7083	800	960	970	980	
7084	757	900	923	933	
7085	723	933	917	927	
7086	807	953	953	963	
7087	793	950	957	967	

3 lb wet

				25 Kept	50
Dup 6941 Except 10% off, 7 lb to 86 hours, 24 grain 708 Dip drum — 3 lb weight 21% KOH. 5.63	7070	1053	980	933	
	7071	1033	997	980	Co
	7072	1050	1010	960	
Dup 7070 21% KOH, RUN COLD 3 lb wet 5.62	7073	1050	1017	1010	
	7074	1053	1017	997	Co
	7075	1040	993	977	
Dup 7070 21% KOH, 2 gm Li OH, RUN COLD 5.57	7076	1093	1147	1150	
	7077	1083	1120	1107	Co
	7078	1097	1123	1110	
Dup 7070 21% KOH 2 gm Li OH 5.57	7079	1080	1133	1077	
	7080	1094	1147	1100	Co
	7081	1107	1143	1090	
Dup 6941 10 deg to 24 off 7 lb 86 hours not linked 24 708 Dip drum — 3 lb weight — 21% KOH, 5.73	7082	950	880		
	7083	960	903		Co
	7084	920	830		
Dup 7082 21% KOH, RUN COLD 3 lb wet 5.72	7085	920	977	960	
	7086	953	950	950	Co
	7087	957	967	973	
Dup 7082 21% KOH, 2 gm Li OH RUN COLD 3 lb wet 5.72	7088	1043	1077	1060	
	7089	1043	1077	1063	Co
	7090	1053	1100	1057	
Dup 7082 21% KOH, 2 gm Li OH 5.72 3 lb wet 5.72	7091	1067	1087	1063	
	7092	1053	1067	1037	Co
	7093	1037	1067	1030	

7076	1167	Co	
7077	1097		
7078	1100		
7079	1093	Co	
7080	1140		
7081	1133		
7085	943	Co	
7086	953		
7087	977		
7088	1050	Co	
7089	1097		
7090	1123		
7091	1070	Co	
7092	1053		
7093	1033		

discharge rate 200 ma — A charged [illegible] 150 rate 4500 max in
B " " 75 " " " "
Finished

	1st	2nd	3rd	4th		
7094	953	980	966	950	963	
7095A	1046	1030	1018	993	1000	
7096	1025	1020	1011	991	1000	
7097	1086	1030	1010	990	1000	
7098B	1068	1012	990	972	980	
7099	1068	1016	993	975	985	

after [illegible] rate charge [illegible]

Finished Lot

3 lb cut

3 lb cut –

Dup 6941 – 10 deg to left
7 lb 86 not thru H – 24 Nr 2
g box from Big Drum 5.69
24 hot 3 lb weight – Holding to density
1/4 density 3 lb 5.71

Dup 7094 –
to H allowed change 1st change
1/4 density 3 lb

Dup 7094 –
Tube with burns ground
off much further L
21% KOH. 3 lot

Dup 7094
ditto burns ground
nearly off –
21% KOH. 3 lb lot

Dup 6941 10 deg to left
with 10 mlg flake twice as
thick – 24 only 70% Big drum
3 lb cut – 21% KOH

Dup 7106 –
Except 21% KOH RUN COLD
3 lb

Dup 7106
Except 21% KOH 2 grams OH.
3 lb

Dup 7106
Except 21% KOH 2 grams OH
3 lb RUN COLD

		25 lot	
7094		867	Co
7095		920	
7096		897	
7097		887	Co
7098		850	
7099		733	
7100			
7101			
7102			
7103			
7104			
7105			
7106			
7107			
7108			
7109			
7110			
7111			
7112			
7113			
7114			
7115			
7116			
7117			

~~Nathan Stroke~~

3 lbs cut

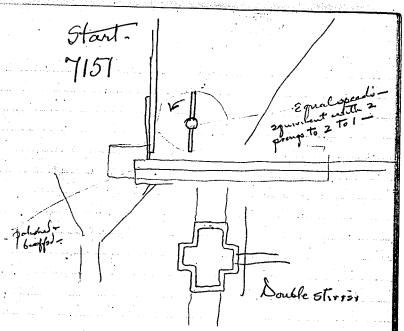
Dup 7106 708 Big drum Except 15 flake lines outside – 24 mig green 21% KOH.	7118 7119 7120			
Machine back to old style same as used in 5843 & 5530 Series good ribbs – Green dumps on flake – Double Tamps –				
21 Hole 005 1½ spiral – 86 flake – not thinned H. 10 flake 24 no 2 from 708 drum Big drum – green dumped on flake KOH. 21% KOH. 3 lb cut	7121 7122 7123			
Dup 7121 21% KOH. RUN COLD 3 lb	7124 7125 7126			
Dup 7121 21% KOH, 2 grams Li OH. RUN COLD 3 lbs.	7127 7128 7129			
Dup 7121 21% KOH, 2 grams Li OH, 3 lbs.	7130 7131 7132			
Dup 7121 Except 7 flake 86 not thin H, 24 green 21% KOH.	7133 7134 7135			
Dup 7121 Except 7 flake 21% KOH. RUN COLD	7136 7137 7138			

Dup 7121 Except 7 flake 21% KOH. 2 grms LiOH.	7139			
	7140			
	7141			
Dup 7121 Except 7 flake 86 Through Hydrogen 21% KOH.	7142			
	7143			
	7144			
Dup 7121 Except 7 flake Through Hydrogen 21% KOH. RUN COL	7145			
	7146			
	7147			
Dup 7121 Except 7 flake Thru Hydrogen 21% KOH 2 grms LiOH.	7148			
	7149			
	7150			

Recent [illegible] Lithium

21% KOH [illegible] of powdered [illegible] grms recovered
[illegible] feed [illegible] Dump
of flake [illegible] in [illegible]
No [illegible] flake 7141.4
[illegible] grms. Big [illegible]
30% KOH, 1 [illegible] grms.

Start -
7157



Flake dumps just in advance of grow so first part grow strikes last part of flake —
10 sec dumps showed dumping of flake fairly even — 50 dumps with 8 of that H, shows 7 milg f —

7154 – white albinism removed practically all of the white flour ni from otherwise uniform of the light green pieces. There are however a large number of white pieces so much probably 25% white ones

2/2 W not filtered green an unseen product which is not so W with 1/2 W filtered so many Even the better colored 62 better there is no white flour on better –

7160	894	1067	1047	1057		
61	910	1070	1047	1057		
62	830	1010	1000	1020		
63	850	1027	1010	1030		
64	863	1037	1023	1040		
65	857	1040	1030	1050		
7166	883	983	1013			
67	909	1010	1037			
68	825	920	977			
69	917	1017	1043			
70	902	1000	1037			
71	867	973	1010			
72						
73						
74						

				25	50
21 Holes 005 1½ 3 lbs 708 Big Drum – loaded in 2 lots gutsome white flour off flour 20 days all weight on trays, Hot, left 654 hot H – 7 ft 24 gr 11m – 21% KOH. now food pure in one pan – 10 dump grm 234 ft 70 – 100 – 5.62	7151	1013	797		
	7152	1023	980		Co
	7153	1067	877		
Dup 7151 Except 708 loaf Drum picked out normally with fingers 12 hours – carried over in cake mixer flour products practically removed – Dried Oven 7 ft 4 ft 4 ft plate 24 gr KOH 86 f wet H 7 f 24 g 3.28	7154	1050	823		
	7155	990	827		Co
	7156	1027	857		
Dup 7154 Except RUN COLD 3 lbs 5.58	7157	1057	990	1010	
	7158	1077	1000	1023	
	7159	1070	1000	1043	
Dup 7154 Except 21% KOH, 2 grms of OH. 3 lbs 5.47	7160	1063	1113	1122	
	7161	1063	1110	1117	
	7162	1027	1053	1047	
Dup 7154 Except 21% KOH, 2 grms of OH 3 lbs RUN COLD 5.59	7163	1037	1067	1067	
	7164	1040	1077	1090	
	7165	1053	1083	1100	
~~Dup 7154 – same oven but no 7154 blue 94 bottle flasks Special 7 f 24 g 3 lbs 21% KOH. 5.63~~	7166	1007	880		
	7167	1030	927		Co
	7168	967	841		
Dup 7166 – Except 21% KOH, RUN COLD 3 lbs 5.52	7169	1033	983	983	
	7170	1027	967	980	
	7171	1007	980	933	
~~Dup 7166 – 21% KOH 2 grms of OH 3 lbs~~	7172				
	7173				
	7174				

	100	150
7157	977	990
7158	990	1010
7159	993	1010
7160	1147	1093
7161	1160	1090
7162	1097	1063
7163	1043	1070
7164	1057	1087
7165	1067	1097

7187	780	923	997	1010	1007
88	810	957	1027	1040	1037
89	967	920	1000	1013	1018
7178 =	740	920	993	1000	997
79	783	973	1040	1047	1043
80	767	947	1010	1020	1010
81	777	930	993	1000	993
82	787	930	993	1000	993
83	773	917	993	1007	1000
84	727	950	1020	1040	1040
85	786	963	1040	1050	1047
86	683	920	1000	1013	1010

94 flake is brittle & occasionally finer than non brittle – also large % is not separated = should only be purchase of 7 lb would not expect 5 of separate flake

7190 – with this plunger bounces more had lower speed makes a —··

7193 Bowl bounces so much –· to –··

7190	697	850	900	887	873
91	703	910	920	917	903
92	740	923	937	937	917
93	633	817	840	857	817
94	603	847	857	833	840
95	623	837	887	843	833
96	590	797	793	793	777
97	589	763	777	767	753
98	567	753	767	760	737

Dup 7166 Except 21% KOH. 2 ~~[illegible]~~ RUN COLD

	7175			
	7176			
	7177			
21 flake 005 1 Esp 2 Lbs 94 flake – 707 Ka – ½ w filtered & dried Lower hard – 7 ff 24 g – 21% KOH. 5.67	7178	997	930	Co
	7179	1043	960	
	7180	1010	957	
Dup 7178 Except was 94 flake 7 ff 24 g 21% KOH – 5.76	7181	993	927	Co
	7182	993	950	
	7183	1000	923	
Dup 7178 Except. 3 ½ Lb cut 707 Ka ½ w/f low hard. 7 ff 24 21% KOH 5.77	7184	1040	980	Co
	7185	1047	983	
	7186	1010	947	
Dup 7178 3 ½ Lb cut – Except 94 flake – 707 Ka ½ w filtered 21% 7 ff 24 5.85	7187	1007	950	Co
	7188	1037	980	
	7189	1010	947	
21 Nodes 005 1 Esp 3 ½ cut 708 Ka Brown 94 flake not brittle plunger 227 /1000 hardness [illegible] 21% KOH. 7 ff 24 g – 5.93	7190	873	617	Co
	7191	903	750	
	7192	917	717	
Dup 7190 plunger 217/1000 5.79	7193	817	647	Co
	7194	848	650	
	7195	833	650	
Dup 7190 plunger 207/1000 5.85	7196	777	587	Co
	7197	753	566	
	7198	737	623	

7190			
7191			
7192			
7193			
7194			
7195			
7196			
7197			
7198			

7199	530	707	720	717	700
7200	527	713	723	720	703
7201	520	713	730	727	710
7202	797	917	920	903	
7203	833	950	947	927	
7204	820	937	933	910	
7205	677	837	837	813	
7206	666	830	833	810	
7207	677	840	847	823	
7208	597	773	783	763	
7209	590	830	837	813	
7210	620	790	800	773	
7211	623	823	840	820	
7212	657	853	877	853	
7213	643	843	863	843	
7214	837	1023	1037	1013	
7215	847	1030	1047	1023	
~~7216~~					
7217	847	1030	1043	1017	
7218	837	1020	1037	1007	
7219	750	947	967	940	
7220	620	843	863	843	
7221	587	823	850	830	
7222	573	807	827	807	

Dup 7190 — plunger 197/1000 5.80

21 Hole 005 1½ spiral 3½ wt 237/1000 plunger Wet — 7197 73 feet filled in 12% KOH saturated 24 H 7 ft 24 gr 708 Bing Drum 21% KOH 5.72

21 Hole 005 1½ · 3½ wt. 217/1000 plunger 84 ft not Hydrogen — Lower loading 7 ft 24 grain — 3½ wt 708 Bing Drum 5.79

Dup 7205 except 207/1000 plunger Lower Loading — 84 7 ft 24 grain — 3½ wt 708 Bing Drum 5.81

Dup 7205 Best hang the 3 grids for alcohol for Sweetwater hour & eight minutes 217/1000 1023 ft fluid in hang 73 grain 23.7 84 ft 572

21 Hole 005 1½ Bpl 237/1000 3½ wt 84 ft saturated 6/10 Dif Hor — wet Sand Hole — sweep surface 7 ft 24 grain 708 Bing Drum 10 Dump 7 237 ft 24 1023 ft 84 ft — H open Lift fluid 5.73

21 Hole 005 1½ - 3½ wt 237/1000 — 3½ wide/½ shale 88 ft Matte surface not H 24 gr 708 Bing Drum — 10 Dump 3.7 grain 23.7 6.19

21% KOH

Dup 7217 except 217/1000 plunger — 1029 88 ft 6.11

25 Hole

7199	700	576	Co
7200	703	503	
7201	710	520	
7202	923	763	Co
7203	947	760	
7204	933	790	
7205	827	673	Co
7206	823	657	
7207	837	663	
7208	773	600	Cr
7209	823	623	
7210	787	636	
7211	830	610	Co
7212	863	696	
7213	853	666	
7214	1033	833	Co
7215	1040	843	
7216			
7217	1037	850	Co
7218	1023	817	
7219	960	716	
7220	860	683	Cr
7221	850	666	
7222	827	623	

7223	740	870	880
7224	767	900	900
7225	760	890	893
7226	761	900	900
7227	770	907	903
7228	810	937	930
7229	773	900	897
7230	790	917	917
7231	797	913	913
7233	720	883	930
34	733	887	933
35	750	920	947
7239	733	883	920
40	777	927	963
41	730	873	910
42	717	867	907
43	753	900	933
44	710	863	903
45	490	783	860
46	510	787	860
47	518	807	883
7248	483	1183	1167
49	457	1170	1167
50	463	1167	1160
			1177

7245 the green softens to a certain when 21% poured on green — 6 ounces of oil

1147
1150
1160

1152 a

			25	50
Dup 7190 84 fl	7223	917	783	Co
Except 245/1000 plunger	7224	943	780	
	7225	930	777	
Dup 7223	7226	943	730	
Except layer loading with	7227	940	727	Co
245/1000 plunger 84 fl	7228	967	803	
Dup 7190 with 245/1000 Rod Bevelled off. 8/1000 — South 84 fl.	7229	943	793	
	7230	953	787	Co
	7231	947	783	
Dup 7229 Bevel North	7233	937	780	
6.00	7234	937	790	Co
	7235	947	827	
Dup 7229 East.	7239	920	763	
5.84	7240	963	840	Co
	7241	910	777	
Dup 7229 West	7242	913	793	
6.00	7243	940	837	Co
	7244	907	776	
21 Holes 005 $1\frac{1}{2}$ · $3\frac{1}{2}$ wet 237 83 flukes — 7 fl 24 green Ra	7245	847	650	
1042 green — then 20 ounces	7246	850	710	Co
21/1000 softens — soft. 5.50	7247	880	733	
21 Holes 005 $1\frac{1}{2}$ $3\frac{1}{2}$ wet 708 Big Drum 83 fl 24 green 7 fl. when plane broke off. Ran off 1 hour Small 100 237 21/1000 5.84	7248	1147	1080	1050
	7249	1150	1040	1010
	7250	1160	1033	1090

	100	150
7248	1067	1050
7249	1000	997
7250	970	973

7251					
52					
53					
54	710				
55	743				
56	763				
57	656				
58	973				
59	610				
7260	933	1117	1143	1123	1126
61	963	1133	1157	1127	1130
62	927	1113	1140	1113	1113
63	933	1107	1133	1103	1097
64	960	1127	1140	1117	1113
65	943	1133	1150	1130	1123
66	953	1077	1067	1033	1037
67	943	1090	1090	1050	1058
68	943	1093	1097	1053	1057
69	267?	1063	1090	1050	1073
7270	873	1060	1090	1080	1077
71	890	1063	1083	1073	1070
72					
73					
74					
75					
76					
77					
78					
7257 — 58 — 59	average 620	722	777	788	

Counter started at 7260 —

21 Hole 005 1½ 3½ 237 — treatment to loosen blown nuz no bounce 7 ft 83 24 grain 708 Big D — 21% — 5.65	7251	960	873	25	50
	7252	940	867	Co	
	7253	913	753		
21 Hole 005 1½ 3½ 216 84 overweight — 7 ft 84 24 708 Big Drum 21% 5.38	7254	883	823		
	7255	927	843	Co	
	7256	937	867		
21 Hole 005 1½ 3½ 237 84 7 ft 24 708 Big Drum — Hole gauge 28 gr recd at 100 tube threaded Co 21% — 6.06	7257	average			
	7258	788	Co		
	7259				
21 Hole 005 1½ 3½ 237 — 1 bounce with matte flake — hole opening green 708 Big D 7 ft 24 gr 21% KOH — 5.76	7260	1120	960	863	
	7261	1130	973	Co	913
	7262	1113	987		950
Dup 7260 Lauter Loading — bounce off 21% KOH — 6.00	7263	1097	933	897	
	7264	1113	1010 Co	933	
	7265	1123	1040	963	
Dup 7260 Lauter Loading bounce off 21% KOH, 2 grounds 10 H. 5.85	7266	1037	1113	1000	
	7267	1053	1133 Co	1123	
	7268	1057	1130	1120	
21 Hole 005 1½ 3½ 237 — tube accepted 2 reclaimed 83 ft 24 gr — 708 Big Drum 21% KOH — 5.86	7269	1073	943	907	
	7270	1077	940 Co	973	
	7271	1070	947	940	
Dup 7269 — Except 6 more grounds until 7 p.m.	7272				
	7273				
21% KOH —	7274				

7260	C0		
7261			
7262			
7263			
7264	C1		
7265			
7266			
7267	C1		
7268			
7269			
7270	C1		
7271			

7275	733	947	1037	1020	1017
76	733	990	1017	1000	993
77	760	1017	1047	1027	1023
78	817	1043	1070	1060	1063
79	800	1042	1077	1067	1067
7280	833	1047	1073	1060	1063
81	863	1063	1073	1077	
82	833	1043	1050	1067	
7284	863	1157	1138	1143	1140
85	917	1133	1110	1120	1120
86	893	1143	1090	1117	1117
87	937	1157	1153	1147	1153
88	920	1133	1130	1133	1127
89	973	1173	1167	1157	1167
90	1050	1137	1143	1140	1138
91	1023	1133	1140		
92	1027	1123	1137		
93	947	1047	1087		
94	983	1090	1113	1086	1084
95	970	1050	1070		

7284 = Notice that value (Hardness) — flake then it is brittle = also many flakes are stuck together clots of 5 to 10 flakes — the back of the flake has shrunk double as much —
I think 7 flake would be only equal to 4 or 5 of original 83 on account of its sticking together
Yet, surface is matte — it looks like Cobalt flake
yet the surface is smooth except the pits almost too minute to see with lens — think possibly could make the surface just as good by polishing flake
is what is wanted — probably looking
Nevertheless arsenic etc. the good effect
is not due to matte surface entirely
at all — Cobalt has not only a matte
surface but a rough in a better way
Remember then flake is brittle is still
the test of dried all the copy then

21 Hole 005 1½ 3½ 237 — 83 lb. Co(Co) 1/4 here Cone. to OH — 420 amp/ft² Lifting to OH under flake, dry Cannot Bend, 7 ft 24 708 Bin D flake surface	7275	1017	873	50	
21% KOH green 5.87	7276	993	863	Co	
	7277	1023	933		
21 Hole 005 1½ 3½ 237 Regular — 0.097 flake Matte surface — 1½ tenth R. good — 10 ft 24 green 708 Bin D Cobalt Cone. to Ammon	7278	1063	963		
21% KOH. 5.74	7279	1067	893	Co	
	7280	1063	950		
21 Hole 005 1½ 3½ 237 — 83 lb (Co(Co)) 420 OH — 420 amp/ft² 708 Bin D Regular — 7 ft 24	7281	1067	927	Co	
21% KOH 5.74	7282	1050	867		
21 Hole 005 1½ 3½ 237 — 83 amp/ft² 708 Bin D OH. Cannot bend — 1 7245 — 7 ft 24 708 Bin D	7284	1140	1157	1067	
21% KOH, 2 green to OH. 5.99	7285	1120	1153	1123	
	7286	1117	1197	1173	
21 Hole 005 1½ 3½ 237 — 0.0197 Tested only 7 flake — 10 ft 24 708 Bin D 3½ 83 (Hardness amp/ft² high value) Either — Sensitive to KOH 6% OH 1 ft 24 green	7287	1153	1063	1023	
21% KOH 5.85	7288	1127	1023	983	
	7289	1167	1050	997	
Dup 7287 Except 21% KOH 2 gm to OH.	7290	1143	1193	1103	
	7291	1133	1167	1067	
5.87	7292	1123	1140	1033	
Dup 7287 Except Longer loading	7293	1083	997	947	
	7294	1103	1040	1017	
21% KOH 5.79	7295	1067	987	933	
	~~7294~~				

7284	[illegible]	990	
7285	[illegible]	990	
7286	[illegible]	1080	
7287			
7288	Co		
7289			
7290	957		
7291	973		
7292	980		
7293	877		
7294	953	Potassio —	
7295	880		
7296			

Slurry in flake flaper

7296	1026	1123	1143	1137	1126
7297	1023	1127	1147		
7298	1017 1024	1123 1124	1133 1141		
7299	1017	1117	1133	1117	1108
7300	1010	1107	1120		
7301	993 1004	1100 1104	1120 1104		
7302	1000	1047	1043	1030	1021
7303	997	1040	1037		
7304	990 1000	1027 1004	1023 1004		
7305	990	1030	1023	1009	996
7306	980	1007	1000		
7307	953 984	1027 1004	1027 1000		
7308	890	1083	1110	1109	1110
7309	887 895	1100	1123		
7310	997	1110 1004	1133 1004		
7311	75 Rate.	30 gal Tank	1193	1166	1158
7312	1213	1176	1123	1110	1100
7312	1150 1151	1123 1124	1123 1124	1112.	1103.

Total weight after flaking

Layer loading -

			25	50
21 Hole 005 1½ spiral 3½ lift 237 plunger - 83 flake [illegible] Stokes lower heat [illegible] Hydrogen [illegible] 7296 [illegible]	7296	1123	1047	1023
	7297	1133	1060	1020
Layer loading 21% KOH. 5.13	7298	1123	1027	1020
Layer loading Dup 7296 Except 21% KOH RUN COLD 6.07	7299	1120	1053	1053
	7300	1103	1032	1030
	7301	1103	1023	1010
Layer loading Dup 7296 Except 21% KOH 2 gram Li OH. 6.13	7302	1037	1183	1130
	7303	1020	1180	1133
	7304	1007	1143	1117
Layer loading Dup 7296 Except 21% KOH, 2 gm Li OH RUN COLD 6.13	7305	1003	1090	1120
	7306	987	1097	1130
	7307	997	1093	1130
Layer 2 — Dup 7296 Except 40 g Rd-½ w filling) loaded 21% KOH. 6.16	7308	1097	1067	1033
	7309	1117	1093	1063
	7310	1117	1107	1090
Layer 2 Dup 7296 Except Raymoly ½ lb filling) loaded at Goetz Hallman 3/4 clay Rate 6.09	7311	1158	1147	1130
	7312	1100	1070	1047
	7313	1103	1097	1067

After 150 Raw put 21% 2 Li OH, 7308

7296	150 923	Set aside —	
7297	923		
7298	950		
7299	100 1017		
7300	1030		
7301	1023		
7302	Skipped	967	
7303	100 1000	983	
7304		973	
7305	100 1110	1047	
7306	1143	1090	
7307	150 1150	1097	
7308	1010	1053	
7309	1080	1100	
7310	1097	1120	
7311	1117	1130	
7312	1033	1063	
7313	1067	1097	

7314	917	1090	1113	1111	1104
15	970	1123			
16	963	1113			
17	923	1013	1050		
18	753	973	1028	1040	1044
19	850	1040	1047		
20	903	1083			
21	960	1113	1113	1120	1121
22	937	1097			
23	947	1147			
24	977	1133	1132	1137	1130
25	958	1110			
26	987	1133			
27	993	1163	1176	1164	1156
28	1013	1170			
29	893				
30	900	1069	1099	1090	
31	853				
32					
33	815	1046	1088		
34					
35	817	1061	1105		
36					
37					

Lower Loading

			25	50
21 Hole 005 1½ 3½ 237 708 Big Brum — Flake 95 Black Green in very Dense HCP 3 Sharp Quartzon chiselled Surface 95 in little flakes 7 ft 24 ft 21% KOH. 5.78	7314	1090	937	920
	7315	1110	980	933 Co
	7316	1113	967	903
Dump 7314 Except No 99 flake. mostly 5.93	7317	1050	920	893
	7318	1020	997	923 Co
	7319	1063	943	933
Dump 7314 Except flake 101 blacked Cobalt. 5.81	7320	1110	1010	983
	7321	1130	973	940 Co
	7322	1123	1010	983
21 Hole 005 1½ 3½ 245 plumy Jubra bars ground to 7/1000 flake 65 Hard Co 6 from 10 to 20 — 7 ft 24 ft 21% KOH — 5.83	7323	1143	1020	930
	7324	1133	1010	973 Co
	7325	1113	1023	980
21 Hole 005 1½ 3½ 237 Jubra 708 Big Brum 84 flake black Brownish Black — Co — hot. flake fractured 5.99	7326	1143	1020	933
	7327	1157	1030	970 Co
	7328	1167	1020	987
21 Hole 005 1½ 3½ 237 24 g 708 Big Brum Lower Loading 7 ft 24 ft 21% KOH — 5.85	7329	1063	967	
	7330	1053	947	Co
	7331	1040	853	
21 Hole 005 1½ 3½ 237 — Lower 24 g 708 Big Brum 93 Brownish black Cond KOH — Granite with Quartz Hard Amorphous glass — Co Coated Smoky with Crystals 7 ft 24 ft 21% KOH 5.88	7332	1083	870	Co
	7333	1083	933	
			000	
Dump 7332 Except 83 Weighed with Graphite Co Coating + HCl Acid Dead flake — 5.81	7335	1120	1083	1053
	7336	1100	1023	997
	7337	—		Co

7335
7336

7338	852	1045						
7339								
7340								
7341	883	1089						
7342								
7343	900	1086						
7344								
7345	808	1062						
7346								
7347								

* Notice there is very little Gouner to plunge in the 100 flake. It does like (10) plunge —

							25	50
Dup 7332 Except 93 g treated Bichromate + 6 g KOH Cancer at big Sparry Silvery polish — 21% KOH 5.87	7338	1050	883					
	7339	1057	903					
			900					
Dup 7332 Except 94 g treated Chl. bulbosum in aqua Reg 21% KOH Bluish 5.85	7340	1100	957					
	7341	1093	950					
	7342	1110	910					
Dup 7332 Except 94 g treated Rhodium in aqua Reg. Chromate — 21% KOH — 5.88	7343	1067	910					
	7344	1097	940					
Dup 7332 Except Iridium in aqua R 94 g — 21% Blue black 6.10.	7345	1067	877					
	7346	1120	983					
	7347	1057	873					
21 Hole 0.05 1½ 3½ 237 Vo 100 g 8% Copper 9.64 — 7 flake 24 g 708 Big Drum — Light loading 21% KOH — 5.81	7348	1083	933					
	7349	1107	927					
	7350	1064	913					
Dup 7348 — Except was Green this time Boiled in aqua Chromate + chem Boiled in KOH, 708 Big Drum was used 21% KOH — 5.81	7351	1107	993					
	7352	1110	1033					
	7353	1123	1060					
Dup 7348 Except 21% KOH, 2 gram of OH, 5.80	7354	1057	1080					
	7355	1040	1080					
	7356	1037	1058					
Dup 7348 Except 21% KOH 2 gram of OH RUNCOLD 5.88	7357	1040	1057					
	7358	1047	1107					
	7359	1030	1083					

	100	150
7348	877	
7349	763	
7350	840	
7351		
7352		
7353		
7354	1113	1083
7355	1130	1107
7356	1087	1067
7357	1107	1063
7358	1140	1077
7359	1093	1043

Set aside

			25	50
Dup 7348 Except 25% KOH 2 grms diOH — Each cell — 5.89	7360	1030	1047	997
	7361	1059	1087	1067
	7362	1063	1113	1113
Dup 7348 Except green dumps on top of flake. Double Tamps off way — 21% KOH 5.95	7363	1023		
	7364	1067		
	7365	1060		
Dup 7348 green dumps on flake. Double tamps off way 21% KOH, 2 grms diOH. 5.94	7366	1057	1047	1030
	7367	1080	1100 Co	1097
	7368	1077	1073	1060
Dup 7348 green dumps on top flake — Double Tamps off way 21% KOH 2 grms diOH. RUN COL. 5.93	7369	1043	Co	1070
	7370	1067		1080
	7371	1087		1117
Dup 7348 Except use 3 lb cut 21% KOH — 5.75	7372	1113	973	
	7373	1090	910	Co
	7374	1087	970	
Dup 7348 Except 3 lb cut 21% KOH, 2 grms diOH. 5.57	7375	1020	1147	1143
	7376	1030	1103	1110
	7377	1033	1110	1110
Dup 7348 Except use 2 1/2 lb cut 21% KOH. 5.48	7378	1060	977	963
	7379	1100	1043	1047
	7380	1080	1007	1013
Dup 7348 Except use 2 1/2 lb cut 21% KOH, 2 grms diOH, 5.48	7381	997	1108	1090
	7382	997	1103	1097
	7383	993	1120	1083

		150	
7360	Sk (Ppd)	1053	
7361	100 Ppd	1087	
7362	"	1183	
7363			
7364			
7365			
7366	1030		
7367	1097		
7368	100		
7369			
7370			
7371			
7372			
7373			
7374			
7375	Sk (Ppd)	1127	
7376	100 R	1103	
7377		1093	
7378	917		
7379	987		
7380	960		
7381	Sk (Ppd)	1067	
7382	100 Rem	1087	
7383		1093	

				25	50
21% Rohoost 1½ 3 lbs 237 Dump strength flake-old way Double Tailpo – 708 g 7 fl 100 21% KOH. 5.66	7384	1100	933		
	7385	1110	950	Co	
	7386	1060	917		
Dup 7384 3 lbs 21% KOH, 2 gms Li OH. 5.62	7387	1077	1090		
	7388	1100	1117		
	7389	1107	1117		
Dup 7384 except 2½ lbs 21% KOH. 5.47	7390	1093	953	Co	
	7391	1113	980		
	7392	1113	997		
Dup 7384 2½ lbs 21% KOH, 2 gms Li OH. 5.48	7393	1063	1093		
	7394	1067	1120	Co	
	7395	1063	1097		
Dup 7384 2 lbs 21% KOH. 5.36	7396	1067	953	Co	
	7397	1097	1010		
	7398	1087	933		
Dup 7384 2 lbs 21% KOH, 2 gms Li OH. 5.35	7399	1037	1093		
	7400	1023	1067	Co	
	7401	1047	1090		
Younger Cuvée Dup 7348 except Soak 14 hours before put in 237 7.1 fl 2.38 708 g 100 flakes 21% KOH. 5.69	7402	1100	1003		
	7403	1100	997	Co	
	7404	1117	1027		
Dup 7348 91 flakes Younger 7.1 fl 2.38 gram 708 – flake bottle not long enough 21% KOH. 5.69	7405	1040	983		
	7406	1047	1007	Co	
	7407	1027	987		

	50		150	200
7387			1043	973
7388			1027	953
7389			1067	1040
7390	867			
7391	960			
7392	983			
7393	1090			
7394	1133			
7395	1090			
7396	943			
7397	990			
7398	910			
7399	1093			
7400	1083			
7401	1103			
7402				
7403				
7404				
7405				
7406				
7407				

Cd

Cd

Dep 7405 Ecclat 21-% Kott 2 grms L.O.St 7.1 f 23.8 grain No2 1033 ft 5.69	7408	1040	1110
	7409	1043	1120
	7410	1043	1117
Dep 7409 Ecclat 21-% Kott 2 grms L.O.St. 7.1 f 23.8 No2 RUN COL 5.65	7411	1040	1117
	7412	1040	1110
	7413	1037	1093
21 Hole 005 1½ 3½ 237 Larger 105 flake 7 f 24 x 02 big Drum 21-% Kott. 5.74	7414	1110	1067
	7415	1087	1030
	7416	1087	1047
Dep 7414 21-% Kott 2 grms L.O.St. 5.74	7417	1027	1127
	7418	1020	1117
	7419	1023	1083
Dep 7414 21-% Kott 2 grms L.O.St RUN COL 5.73	7420	1033	1083
	7421	1013	1087
	7422	1037	1080
~~21 Hole 005~~ 3½ 237 Larger 105 A flake ~~7 f 24~~ big Drum 21-% Kott 7.3 f 23.8 grain 1033 ft 5.73	7423	1113	833
	7424	1087	1043 Co
	7425	1090	980
Dep 7423 21-% Kott, 2 grms L.O.St — 5.78	7426	1023	1090
	7427	1040	1117 Co
	7428	1037	1117
Dep 7423 — ~~21-% Kott~~ 2 grms ~~L.O.St~~ RUN COL 5.78	7429	1037	1100
	7430	1023	1100 Co
	7431	1040	1087
	7432		

	50	100	
7408	1147	1160	
7409	1147	1190	
7410	1107	1107	
7411	1103	1120	
7412	1100	1113	
7413	1103	1113	
7414	1067	990	Set aside
7415	1010	937	
7416	1020	950	
7417	1160	1130	
7418	1107	1113	
7419	1107	1113	
7420	1100	1107	
7421	1090	1103	
7422	1067	1073	
7423	1000		
7424	977	Co	
7425	1013		
7426	1133		
7427	1150	Co	
7428	1133		
7429	1097		
7430	1093	Co	
7431	1100		

			25	
21 Hole — 12 32 237 100 A 7 fl 23.8 N72 Big D — 1931 fl	7432	1047	1047	
	7433	1053	1043	
5.70	7434	1050	893	
Dup 7432 21% ROH 2 gm 1.064	7435	1047	1090	
	7436	1063	1123	
5.72	7437	1053	1113	
Dup 7432 21% ROH, 2 gms 1.064 RUNCOLD	7438		1123	
	7439		1133	
5.70	7440		1110	
~~Dup 7441 — 21 Hole 005 Rom Granite 10/000 dangle — fl-6 65 7 p 24 6 Big D — 21% — 4 fl Longtubes.~~	7441	1388	1183	
	7442	1479	1288	
8.84	7443	1404	1250	
Dup 7441 21% ROH. 3 gm 1.064 —	7444	1492	1542	
	7445	1521	1572	
8.94	7446	1504	1513	
Dup 7441 — 21% ROH 2 gm 1.064, RUNCOLD	7447	1433	1508	
	7448	1517	1604	
8.88	7449	1383	1487	
~~21 Hole 005 — 1½ 3½ Lengths 237 7 12 No 107 — 24.2 Big D —~~	7450	1057	940	CO
	7451	1107	1000	
5.80	7452	1113	1047	
Dup 7450 21% ROH 2 gm 1.064.	7453	1057	1067	CO
	7454	1090	1113	
5.70	7455			

	50	100	
7432	1000	873	Set aside
7433	973	887	
7434	1000	940	
7435	1133	1093	
7436	1147	1157	
7437	1133	1140	
7438	1123	1133	
7439	1133	1153	
7440	1120	1117	
7441	1075		Set aside
7442	1217		
7443	1125		
7444	1217		Set aside
7445	1458		
7446	1521		
7447	1529	1542	
7448	1654	1617	
7449	1508	1492	
7450			
7451		Co	
7452			
7453	1073		
7454	1187	Co	

21 Hole 005 1½-3½ 237 layer 105A, oxide (Peacock - 12 Inches) Low temp H - 2 hours - 21% KOH - 6.00	7455	1097	1040	
	7456	1093	1030	
	7457	1097	1057	
Dep 7455 21% KOH. 2 gm LiOH. 6.00.	7458	1033	1110	
	7459	1030	1080	
	7460	1030	1077	
Dep 7455 21% KOH 2 grams LiOH. 6.00 RUN COLD	7461	1037	1100	
	7462	1033	1107	
	7463	1033	1083	
Dep 7455 23% KOH. 2 gm LiOH. 6.07	7464	1053	1067	
	7465	1060	1050	
	7466	1037	1023	
21 Hole 005 3½ 237 layer 7.1 f 107A flake 24.2 Bi yD 21% KOH. ~~Temperature~~ 5.76	7467	1087	1060	CD
	7468	1103	1077	
	7469	1103	773.5	
Dep 7467 21% KOH. 2 gm LiOH. 5.76	7470	1060	1150	1150
	7471	1060	1163	
	7472	1060	1163	
Dep 7467 21% KOH 2 gm LiOH 5.76 RUN COLD	7473	1067	1147	
	7474	1067	1140	
	7475	1067	1137	
21 Hole 005 3½ 237 Layer 99% oxide Peacock - 7.3 f 24.2 K 2 Bi yD 21% KOH 5.89	7476	1077	~~1098~~	
	7477	1083	1017	CD
	7478	1077	737.5	

	50	100	
7455	913	877	Sefamico
7456	997	1000	
7457	987	930	
7458	1130	1057	
7459	1103	957	
7460	1073	947	
7461	1103	1103	
C 7462	1103	1100	
7463	1090	1077	
7464	1110	1123	
65	1073	1100	
66	1040	1073	
67			
68			
69			
70	1227	1133	
71	1253	1033	
72	1233	1177	
73	1193	1170	
U 74	1147	1143	
75	1143	1133	
76			
77			
78			

			25	50
Dep 7476				
2½ lb cot —	7479	1073	1023	987
21% KOH —	7480	1067	1030	980
5.75	7481	1070	1023	1010
Dep 7476				
2 lb 2 oz cot.	7482	1067	1023	933
5.64	7483	1070	1027	953
	7484	1067	1010	933
Dep 7476 9 [illegible]				
3½ lb cot. No off. from 6.18	7485	943	913	880
Reagent [illegible] Sulfate - ½ w	7486	933	857	790
not filled our [illegible]	7487	1017	1023 99	1000
7.3 lb [illegible] oxide - 1031 grm 24.7				
Dep 7476 -				
3½ cot - 9 P Prime Vac dried	7488	1060	1017	990
green 7.3 lb 24.3 g oxide	7489	1050	583 56	857
21% KOH. 5.84	7490	1043	977	923
Dep 7476 - 3½ cot				
Ra 714 green 23.8	7491	990	980	
7.3 lb - green [illegible] little sticky	7492	1010	1033	10
on sides 21% KOH 5.46	7493	997	970	
Dep 7476 3½ cot Ra 707				
cot 3 lb	7494	1000	933	967
7.3 lb oxide - 23.7 green	7495	1023	1000	983
21% KOH - green [illegible] 6.51	7496	993	917	863
21 Hole cot 1½ 3½ 7 lb 99% oxide				
P Sinock 708 lb Drill 24.5	7497	930	1063	1060
7.3 lb - green [illegible] sunken) Sint	7498	997	1043	1020
Coff - [illegible] 21% KOH 6.19	000			
Dep 7497 -				
but less Copper in not black	7499	1137	1110	1043
	7500	1140	1103	1023
21% KOH. 5.90	7501	1137	1113	1063

	100	
7479	1003	
7480	950	
7481	1007	Co
7482	947	
7483	960	Co
7484	933	
7485	867	
7486	783	set zero w. Co
7487	1023	
7488	967	
7489	947	Co
7490	890	
7494	833	
7495	1007	
7496	873	
7497	840	Co
7498	713	
7499	1040	
7500	1000	
7501	1033	

25 50

Dup 7499				
21% KOH. 2 gms Li OH.	7502	967	1117	
	7503	1010	1093	
5.86	7504	1030	1097	
21 Hole 005 1½ 3½ 7 grms 708 big Drum - been boiled Lime Li OH. flake 100 A oxidised higher than Peacock 766 24 gr Lacquer	7505	1083	1047	1043
21% KOH	7506	1077	1063	1023
6.24	7507	1073	1093	1053
Dup 7505 but Reg 708 big Drum - 100 A oxidised higher than Peacock -	7508	1123	1057	1000
	7509	1127	1082	997
6.02	7510	1107	1023	950
Dup 7508				
21% KOH. 3 grms Lithium Chloride	7511	1047	1117	
	7512	1050	1130	
5.98	7513	1030	1063	
Dup 7508				
21% KOH 5 grms Lithium Chloride	7514	1023	1127	
	7515	1033	1133	
5.99	7516	1040	1110	
Dup 7508				
21% KOH. 10 grms Lithium Chloride	7517	Burned	Lost	
	7518			
5.99	7519			
Dup 7508				
With Lithium Li OH. with 3 grms Lithium Chloride, Fresh bell -	7520	110		
	7521	17	Ng	
5.95	7522	20	without	
21 Hole 005 1½ 3½ 10 flakes 100 A oxidised black + higher than Peacock -	7523	1033	996	
	7524	1047	973	
21% KOH. 5.73	7525	1040	980	

		50	100
	7502	1127	1067
	7503	1077	1073
	7504	1097	1083
	7505	1013	
	7506	963	
	7507	997	
	7511	1127	1093
hell	7512	1147	1100 ✓
	7513	1100	1047
	7514	1167	1127
hell	7515	1167	1153
	7516	1127	1063 ✓
	7523		
	7524		
	7525		

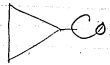
Lemon Lo-Dg

21 Hole 005 1½ 3½ Tubes oxidized black reduced ff – washed good – 2 gms using agitation 24 708 Bin 5 21% KOH. 5.96	7526	1027	650	50
	7527	1033	710	
	7528	1000	617	
Dup 7526 21% KOH, 2 gms Li OH. 5.93	7529	1007	947	
	7530	1007	1083	
	7531	1000	1063	
Thermo 7499 Duplicated – 21% KOH. 5.90	7532	1117	1043	
	7533	1110	1093	
	7534	1123	1083	
21 Hole 005 1½ 3½ gms oxidized black 737 244 gms 708 sorted Calcium Sulphate – 21% KOH 5.80	7535	1067	953	Co
	7536	1063	983	
	7537	1067	973	
Dup 7535 21% KOH 2 gms Li OH. Excluded 5.80	7538	940	970	Co
	7539	933	1010	
	7540	960	1010	
Dup 7535 Bin 5 Green treated Uranium Sulphate – 12 gms only ½ dis 21% KOH – 5.89	7541	1013	947	Co
	7542	1033	1013	
	7543	1020	950	
Dup 7541 21% KOH. 2 gms Li OH.	7544	937	1023	Co
	7545	940	1037	
	7546	943	1057	
Dup 7533 Red green treated 12 gms Cobalt Sulphate – 21% KOH – 5.77	7547	950	787	
	7548	720	950	
	7549	720	773	

	50	100	
7526	493		Set aside Edum Examine one
7527	530		
7528	460		
7529	903	893	Co
7530	1023	933	
7531	1027	940	
7532	990	960	
7533	1053	1030	
7534	1023	977	
7547	833	857	Co
7548	783	797	
7549	800	833	

Dup 7547	7550	877	1030	
21% KOH 2 gm 1.08H. 5.77	7551	863	1020	
	7552	880	1050	
Dup 7535 Part green treated 12 gms Ferrous Sulfate oxidized H_2O_2 & Sodium vol filing — 21% KOH. 5.91	7553	87		
	7554	100	Co	
	7555	83		
Dup 7553 21% KOH, 2 gms 1.08 —	7556	193	Co	
	7557	207		
	7558	187		
Dup 7553 Part green treated 12 gms Cadmium Sulfate — 21% KOH. 5.82	7559	1083	1010	Co
	7560	1103	983	
	7561	1107	993	
Dup 7559 21% KOH-2 gms 1.08H.	7562	923	1020	Co
	7563	920	1017	
	7564	917	1060	
Dup 7535 Part treated 12 gms Magnesia Sulfate — 21% KOH. 5.90	7565	1030	937	Co
	7566	1030	903	
	7567	1033	863	
Dup 7565 21% KOH 2 gms 1.08.	7568	903	1047	Co
	7569	913	1030	
	7570	913	1043	
21% KOH 1.34 Strong Sunflower Plants [illegible] with wind with 708 green [illegible] 21% KOH. 5.96	7571	1157	1053	
	7572	1157	1077	
	7573	1147	1117	

			100
*	7550	1060	990
	7551	1050	1010
	7552	1087	1040



7571	957	833
7572	953	860
7573	993	887

Dup 7571				
21% ROH 2 gms LiOH.	7574	1153	1193	
Each Vial —	7575	1153	1187	
	7576	1127	1093	
21 Hale 005 1½ 3½ - 7 f 24	7577			
70% Big 0				
21% ROH, 1 gm Tantalum	7578			
5.83	7579			
21 Hale 3½ gene flake 0 dry black	7580	840	820	
70% co zeit glucose				
not soaked out	7581	833	813	Co
21% ROH.	7582	837	810	
Dup 7580 —	7583		807	
21% ROH, 2 gms LiOH.	7584		800	Co
	7585		800	
Repeat 3½ gen 0 x flake -	7586	317		
Black 0 x 70% co zeit Hyp	7587	323	Co	
on Vacuum Dry				
21% ROH	~~7588~~			
Dup 7580 except	7589	837	810	
glucose not soaked out	7590	830	800	Co
21% ROH	7591	833	797	
Dup 7589	7592	580	750	
21% ROH 2 gms LiOH.	7593	580	747	Co
	7594	580	750	
Long time				
21 Hale 005 1½ 3½ Rapid boil	7595	1454	1204	
70% co zeit flake 0 dry black				
1 lb flake 24 g	7596	1483	1333	
21% ROH 7.83	7597	1421	1225	

7574	1133	1000
7575	1100	1000
7576	1007	890

Co

		75
7595	1088	
96	1142	
97	1013	

Dup 7595 Longtube —				
21% KOH 2 grms di Dist —	7598	1417	1479	
	7599	1496	1538	
Volume of Dist 8c 7.76	7600	1471	1496	
21 Hole 005 1½ 3½ 7 ft	7601	1153	1070	Co
gent oxide 6 Beaker 708 (g) Bi oxide 3 ml made up 170 7 ft Hg Kitchen wire-boiled KOH — 24 g 21% KOH	7602	1133	1033	
	7603	1153	1047	
Dup 7601	7604	1080	1077	Co
21% KOH. 2 grms di Dist.	7605	1060	1067	
	7606	1083	1097	
21 Hole 005 1½ 3½ 7.4 ft	7607	1037	987	Co
24 708 grms oxide — 0.01 of Bi of Thorium 10 grms not accurate wire-boiled KOH — 21% KOH	7608	1037	990	
	7609	1037	970	
Dup 7607	7610	940	1023	Co
21% KOH — 2 grms di Dist —	7611	933	1023	
	7612	933	1057	
21 Hole 005 Regent grms 7.010	7613	1500	1392	
24 708 B. oxide	7614	1554	1383	
7 ft 24 g 21% KOH. 8.26	7615	1538	1375	
Dup 7613	7616	1513	1579	
21% KOH. 2 grms di Dist — 8.30	7617	1483	1538	
	7618	1487	1579	
21 Hole 005 1½ 3½ 7 ft	7619	1040	997	
708 (g) grms oxide in one 2 ml Bi nitrate Hg Kitchen wire-boiled KOH — 21% KOH 6.38	7620	1027	1040	
	7621	1007	1017	

	75		
7598	1404		
99	1475		
7600	1450		
7612			
7613	1158		
7614	1154		
7615	1200		
7616	1429		
17	1454		
18	1438		
7619	1033	1040	
7620	1053	923	
7621	1023	990	

Lawyer Landing

25

Dup 7619	7622	1097	1300
21% KOH 2 gm L10 Hi. 3 6.37	7623	1107	1287
	7624	1117	1310
Dup 7619 Except gram carried overboard in flight with gas—not carried dried liquor boiled KOH— 7.4 24.9 21% KOH. 6.16	7625	980	1047
	7626	980	917
	7627	970	980
Dup 7625	7628	1067	1120
21% KOH 2 gm L10 Hi 6.17	7629	1063	1287
	7630	1067	1227
21% Hoc005 1½ 3½ 237 105 Reg Hi flake not ox 7.24 Olyor—700— 21% KOH. 5.56	7631	1107	1010
	7632	1127	1057
	7633	1120	1053
Dup 7631	7634	1057	1127
21% KOH. 2 gm L10 Hi.	7635	1060	1150
	7636	1060	1140
Dup 7631	7637	1063	1067
21% KOH. 2 L10 Hi Run COLD	7638	1040	1057
	7639	1060	1097
21% Hoc005 1½ 3½ 237 7.14 Reg 237 700 Reg Ox— 700 flake 1080 not ox 21% KOH.	7640	1037	940
	7641	1090	1023
	7642	1117	1040
Dup 7640	7643	1060	1130
21% R 2 L10 Hi.	7644	1047	1127
	7645	1040	1100

		50	100	150	200	250	300
Brown	7622	1267					
	7623	1270					
	7624	1267					
	7625	1023	930				
	7626	927	917				
	7627	957	980				
	7628	1170					
	7629	1227					
	7630	1217					
	7631	943	927				
	7632	1030	1037				
	7633	1027	1047				
	7634	1153	1158				
	7635	1197	1157				
	7636	1183	1153				
	7637	1110	1117				
	7638	1097	1097				
	7639	1133	1150				
	7640	893	900				
	7641	983	967				
	7642	1013	1017				
	7643	1023					
	7644	1147					
	7645	1010					

Co

Dup 7640	7646	1043	1057
21%K 2 LiOH RUNCOLD	7647	1040	1067
	7648	1020	1060
21 Hole 005 1½ 3½ 237-	7649	1123	1040 Co
110 Regni of not on 708 BD-	7650	1080	970
7.1 of 23.9 grm 21%KOH.	7651	1090	993
Dup 7649	7652	1010	1040
21K 2 LiOH	7653	1058	1097 Co
	7654	1050	1107
Dup 7649	7655	1027	1060
21%K 2 LiOH RUNCOLD	7656	1033	1077 Co
	7657	1043	1067
21 Hole 005 1½ 3½ 237	7658	1103	1033
gas ox feed	7659	1113	1077 Co
of 24.2 708 BD grm	7660	1103	1060
grm Soaked Zirconium Sol 21%K 0-5-			
Dup 7658	7661	997	1087
21%K 2 gm LiOH.	7662	960	1077 Co
	7663	993	1050
Dup 7658	7664	1070	1043
grm soaked Titanium Sol	7665	1050	1063
10-9-	7666	1057	1080
of 24.3 grm 21%K			
Dup 7664	7667	890	1110
21%K 2 gm LiOH.	7668	900	1083
	7669	927	1117

50.

7646	1083		
7647	1083		Co
7648	1097		
7664	943	893	Co
7665	1023	1000	
7666	1030	1013	
7667	1160	1030	
7668	1150	997	
7669	1150	1053	

Dup 7668 Green soaked out kept NaOH + NaHSO3 — No KOH Help — 21% K 7624 T —	7670	1140	1090	
	7671	1157	1100	
	7672	1140	1083	
Dup 7670 21% K 2 gm L 0.86.	7673	1073	1190	
	7674	1073	1197	
	7675	1070	1197	
Dup 7668 Green soaked Nitrate Dicyanium Bread-Boiled NaOH — 21% K	7676	1130	1083	Co
	7677	1137	1077	
	7678	1130	1080	
Dup 7676 21% K 2 gm L 0.85 —	7679	910	1043	Co
	7680	870	1020	
	7681	910	1037	
Dup 7668 green soaked in dilute NaOH Washed slightly + Methylene Dried then boiled NaOH 21% K	7682	1113	1087	
	7683	1117	1107	
	7684	1117	1103	
Dup 7682 21% K 2 gm L 0.86.	7685	1023	1180	
	7686	1003	1160	
	7687	1000	1163	
Dup 7668 Green soaked Subpatte Silver then in NaHSO3 Boiled KOH 21% K	7688	1143	1110	
	7689	1157	1130	
	7690	1143	1110	
Dup 7688 21% K 2 gm L 0.86.	7691	980	1187	
	7692	957	1170	
	7693	983	1153	

7670	1080	1060	Co
7671	1040	1033	
7672	1020	1013	
7673	1223	1107	
7674	1223	1110	
7675	1213	1077	
7676			
7677			
7678			
7679			
7680			
7681			
7682	1057	1043	Co
7683	1063	1067	
7684	1077	1063	
7685	1210	1197	
7686	1193	1050	
7687	1210	1107	
7688	1090		set from Co⁻
7689	1100		
7690	1070		
7691	1210	1043	
7692	1190	1107	
7693	1200	1097	
			pile Loss Coff

7701
9.13 [illegible] Thus at rate of 344 Urlamphour per gram grass

		5 Pm	25	
21 Hole 005 1 1/2 7 ox gall f. Reg grad mix pu 24 – 1 amp let down by hand 2.82	7694	643	587	Co
	7695	657	630	
	7696	660	623	
Bup 7694 33% KOH — 2.66	7697	687		Co
	7698	697		
	7699	600		
Bup 7694 27% KOH 2 grms L. OH. 2.65	7700	770		Co
	7701	913		
	7702	833		
21 Hole 005 1 1/2 3 1/2 7 f. 23.0 – green brighter very nice. [illegible] 21% K –	7703	690	760	Co
	7704	633	733	
	7705	657	733	
Bup 7703 21% K 2 grms L. OH.	7706	523	1013	Co
	7707	567	1040	
	7708	580	1057	
21 Hole 1 1/2 3 1/2 7 flake No Chlorides – Hypo – [illegible] 5.79	7709	1083.	Co	
Pinched Reg grade in mix weight let down by hand 3.00	7710	00	Co	
	7711			
	7712			
Bup 7710. 33% KOH. 3.00	7711	00	Co	
	7712	00	Co	

21 Hole 1½ 3½ 7.3 f 24.2 708 BA - picked out flakes that demonstrated from grain	7713	1110	1003
	7714	1103	1020
21%K 5.78	7715	1097	1020
Dump 7713	7716	967	1050
21%K 2 gm L.Obl.	7717	953	1050
	7718	970	1067
21 Hole 1½ 3½ flake ½ thick oxidized transport 708 BA	7719	1200	1030
	7720	1217	1053
21%K 6.11	7721	1217	1070
Dump 7719	7722	1127	1043
21%K 2 gm L.Obl.	7723	1133	1067
	7724	1120	1023
Dump 7719 flake twice as thick oxidized	7725	1033	1020
	7726	1037	1017
21%K 5.41	7727	1027	1013
Dump 7720	7728	913	1033
21%K 2 gm L.Obl.	7729	927	1050
	7730	930	1050
21 Hole 1½ 2 lbs cut 12 Mulg grain 708 thru 30 mesh 4 flakes general oxidized	7731	1100	
	7732	1103	
21%K 5.66	7733	1103	
Dump 7731	7734	1050	1133
21%K 2 gm L.Obl.	7735	1033	1117
	7736	1040	1113

grain broke up flakes of too much

Test for LiOH.

	7713	950		
	7714	953		Set aside
	7715	957		
	7716	1133	1017	
	7717	1123	970	
	7718	1107	977	
	7719	903		
	7720	977		Set in a dry
	7721	983		
	7722	910	813	
S	7723	933	840	CO
	7724	950	847	
	7725	987	1060	
	7726	987	1000	
	7727	987	1013	
	7728	1067	993	
	7729	1067	980	
	7730	1063	973	
	7731	1017	1027	
	7732	1037	1047	
	7733	1060	1047	
	7734	1137	1037	
	7735	1157	1103	
	7736	1110	993	

Cato Ree

Strike go down hot leaf
Hooper testing now

21 Hot 1½ 3½ 7 fl. genuine oxidized 70 BD 21% K 10 grms Silicate K Each cccc	7737	973	290	
	7738	953	360	
	7739	957	347	
Dup 7737 21% K 10 grm K Silicate 2 grms LiOH	7740	887	150	Colorless
	7741	867	190	
	7742	867	157	
21 Hot 1 005 1½ 3½ 237 6.9 gm ox feed 24.1 70 BD 21% K 5 grms K_2CO_3 Each cccc 2 grms LiOH	7743	1023	1157	
	7744	1033	1147	
	7745	1027	1167	
Dup 7743 21% KOH 5 grms K_2CO_3 Each cccc 3 grms LiOH Each cccc	7746	1020	1193	
	7747	1033	1183	
	7748	1000	1167	
Dup 7743 21% K 8 grms K_2CO_3 — 3 grms LiOH Each cccc	7749	1000	1167	
	7750	997	1167	
	7751	1027	1187	
21 H 005 1½ 3½ 237 7 fl. oz gen ox old hand 551 grm grm 551 — 24.1 7.2 21% K 5.15	7752	1017	987	
	7753	1033	1000	
	7754	1030	1030	
Dup 7752 21% K 2 grms LiOH —	7755	900	977	
	7756	893	973	
	7757	870	947	
Dup 7755 Run Cold 21% KOH 2 grms LiOH.	7758	887	973	
	7759	867	943	
	7760	867	973	

§ L.OH wrong figures

	50	100.
7737		
7738		
7739		
7740		
7741		
7742		
7743	1140	1090
7744	1123	1023
7745	1150	1093
7746	1220	1640
7747	1213	1070
7748	1210	1040
7749	1190	1103
7750	1160	1080
7751	1157	1063
7752	960	957
7753	940	930
7754	990	957
7755	967	867
7756	953	840
7757	903	823
7758	983	
7759	928	
7760	977	

21 Hob 1½ 005 3½ 237
4.2 flake ½ thick oxygen transparent
Red 8H 4 – Smoke on wed. on 7719 –
RA 707 ½ w filtering this and that
23.9 gram 21% KOH 6.32

Dup 7761
Except old No 1 Hard-grain
24.1 gram 4.2 flake – ½ thick
21% KOH. 5.20

21 Hob 005 1½ 3½ 237
7th grame on RA 707 ½ w
flake 1 cooled 2.1 on hot plate
½ hour cooled vessel –
21% KOH. 5.57

Dup 7767
21 K 2 gram L.OH –

Dup 7767
Red wine 708 BO warmed
½ hour cooled –
7.4 f 24.2 9 5.68
So Rec

Dup 7773
21 K 2 gram L.OH.

Dup 7773
(Warmed + cooled) 708 BO
7.4 f 23.9 gr
[illegible]
5.73
So Rec

21 Hob 005 1½ 3½ 237
XXX RA one week before fell.
7.4 f 24.3 gram
5.31
So Rec.

	25	
7761	1230	1173
7762	1200	1200
~~7763~~		
7764	993	800
7765	990	680
~~7766~~		
7767	1110	1117
7768	1093	1103
7769	1093	1103
7770	1030	1130
7771	1007	1113
7772	1027	1110
7773	1110	1053
7774	1110	1050
7775	1103	1050
7776	980	1130
7777	977	1160
7778	967	1153
7779	1123	1067
7780	1117	1070
7781	1123	1040
7782	1043	1030
7783	1043	1047
7784	1077	1080

	7761	1083	1000	
	7762	1117	1017	
	7764			
	7765			
	7767	1087	1080	
707	7768	1087	1097	
	7769	1073	1067	
	7770	1147		
	7771	1157		
	7772	1170		
	7773	1003	1000	
	7774	1020	1033	
	7775	1013	1013	
	7776	1140		
	7777	1170		
	7778	1157		
	7779			
	7780			
	7781			
	7782	1070		
	7783	1030		
	7784	1070		

7797-8-9 after 25 Hot
& 7806-7-8 was charged & dead short ckt
14 times on hot test.
gave final —

7797 —	980
98	1090
99	1017
7806	1120
7	1123
8	1127

Showing no harm

		29	25	
7797 A modern	1177	1093	1107	Co
7798 A old	1170	1100	1040	
7799 A modern	1170	1093	1030	
7800 A "	1083	1147	1177	
7801 A	1090	1150	1153	
7802 A.	1100	1147	1130	
7809 A	1143		1017	Co
7810 A	1140		1083	
7811 A	1117		1057	

			25	
Dup 7782 21/K 2 gms L.O.H.	7785	1043	1113	
	7786	1077	1133	
	7787	1077	1143	
Dup 7782 Ra xxx gm But green heated then coated 7 of 23.8 gm ox of 708 — 21/K 6.20	7788	1080	1090	
	7789	1083	1080	
	7790	1060	1040	
Dup 7788 But 1044 of 23.8 Ra xxx flake gm ox. 21/K Kott. 5.94	7791	1017	1010	
	7792	1057	1000	
	7793	983	993	
Dup 7791 10 fl gm ox but Ra xxx not heated 21/K Kott. 6.03	7794	997	960	
	7795	993	970	
	7796	993	977	
21 Hol 0.005 1½ 3½ 237 7.3 fl gm ox 24.3 green bottles in 10 sides 20 minutes no Kott used green — [illegible]	7797	1163	1063	Co
	7798	1193	1150	
	7799	1150	1050	
Dup 7797 21/K 2 gm L.O.H. modern new no ch	7800	1103	1157	
	7801	1087	1207	
	7802	1160	1213	
Dup 7797 green bottles all ends amorous 7 of 23.9-708 fl gm ox 6.29	7803	1063	1033	
	7804	1083	1050	
	7805	977	930	
Dup 7803 21/K 2 gm L.O.H.	7806	1073	1147	Co
	7807	1047	1130	
	7808	1057	1143	

7785	1183		
7786	1177		
7787	1183		
7788	1083		
7789	1077		
7790	1040		
7791	1023		
7792	1007		
7793	983		
7794	987		
7795	993		
7796	1003		
7797			
7798			
7799			
7800	1157		
7801	1177		
7802	1177		
7803	1013		C_0
7804	1027		
7805	920		

25

A.

7809 Dup made	1067
7810 on Reg Mac	1100
7811	1073

			25	
Dup 7797	7809	1150	980	
green boiled Mahog and dil	7810	1163	1020	Co
coll — no KOH used —	7811	1167	1033	
21% KOH. 73 / 23.89 5.88				
made on Mac made				
Dup 7809	7812	993	1087	
21% KOH 2 gms di. OH.	7813	980	1097	Co
	7814	960	1087	
Dup 7797	7815	1173	1103	
green boiled obtrusy Mahy	7816	1167	1110	
no KOH used — converted kernel	7817	1157	1087	
in our show before mac — 5.79				
Dup 7815	7818	990	1123	
21% KOH 2 gms di. OH.	7819	1017	1133	
	7820	997	1123	
Dup 7797	7821	1133	1137	
green boiled on Hg Cy obtrusy soft	7822	1133	1097	
kernel — no KOH used	7823	1127	1080	
on show 5.90				
Dup 7821	7824	1000	1133	
21% KOH. 2 gms di. OH.	7825	993	1127	
	7826	997	1163	
Dup 7797 boiled KCy —	7827	1120	1070	Co
green yet not kernel	7828	1123	1053	
1 no KOH — 6.97 gms of X	7829	887	1050	
expressed, show 23.89 5.97				
Dup 7827	7830	983	1133	
21% KOH 2 gms di. OH.	7831	973	1120	Co
	7832	980	1127	

gth Raw not good

7815	1040	C_0
7816	1080	
7817	1053	
7818	1137	
7819	1153	
7820	1130	
7821	1053	C_0
7822	1037	
7823	1040	

Note Capacity

Dup this ppt Takes out organic –

Dup 7797 green watered in Citrate K Washed out no KOH 7834 – 21% KOH 5.90	7833	1127	1083	Co
	7834	1140	1057	
	7835	1140	1103	
Dup 7833 21% K 2 gr Li OH	7836	1000	1130	Co
	7837	953	1083	
	7838	993	1127	
21 Hole 7 f gen ox 24 anhydrous Nitrate 21% KOH. 6 gr Li OH —	7839			
	7840			
	7841			
Dup 7787 Boiled Bicarb 1 gr 1 oz KOH strong – in her one hour 21% 5.96	7842	1187	1147	
	7843	1180	1147	
	7844	1183	1133	
Dup 7842 21% K 2 gr Li OH	7845	1007	1133	
	7846	1020	1133	
	7847	1040	1167	
Dup 7787 green soaked strong NH4 Cl and NH4 Not washed out 21% KOH 5.60	7848	1090	1023	
	7849	1097	1013	
	7850	1113	1043	
Dup 7848 21% K 2 gr Li OH	7851	930	1083	
	7852	927	1083	
	7853	913	1080	
Dup 7797 green soaked strong Sol NH4 + NH4 Cl 20 hours washed out 4 times then soaked 21% KOH 5.75	7854	1047	1023	
	7855	1077	1037	
	7856	1050	993	

7842	1057	Co
7843	1060	
7844	1043	
7848	957	
7849	923	
7850	993	
7854	1000	Co
7855	1007	
7856	973	

Note Straight 21% alkali

ditto

7868 went to Holland to test for Economy as Ra says very decided to Hypo Holland has Curve

Economy no better than reg

Dup 7857	7857	873	1057	
21% KOH 2 grms L.O.H.	7858	853	1040	
	7859	873	1047	
Dup 7859	7860	1050	983	
green crackle 3 times in 1.4 MgCl crackle and dried but 2nd	7861	1060	990	Co
21% K 5.85	7862	1027	933	
Dup 7860	7863	893	1043	
21% KOH 2g L.O.H.	7864	857	1023	Co
	7865	880	1040	
21 Hol. 005 1½ 3½ 227	7866	733	813	
green green crackle crackle 7 flake quick off 24 9	7867	733	827	Co
21% KOH 4.81				
21 Hol. 005 1½ 3½ 227	7868	1103	1167	
6.8 flake [illegible] black or yellow from 24.4 KA 7.16 grms Cobalt by Hypo but not followed Low heat	7869	1113	1183	
21% KOH 6.12	7870	1113	1137	
Dup 7868	7871	1070	1200	
21% KOH 2 grms L.O.H.	7872	1063	1200	
	7873	1080	1223	
21 Hol. 005 1½ 3½ 227	7874	1089	1043	
6.9 grms of 24.4 for which [illegible] in 4 [illegible] [illegible] cleaning in green KOH crackle out	7875	1103	1060	
21% KOH	7876	1090	1030	
Dup 7874	7877	937	1100	
21% K 2 grms L.O.H.	7878	937	1090	
	7879	943	1080	

	60	
7857	1053	Co
7858	1037	
7859	1050	
7860		
7861		
7862		
7863		
7864		
7865		
7866		
7867		
7868	1097	
7869	1110	
7870	1073	
7871	1230	
7872	1230	
7873	1247	
7874		
7875		
7876		
7877	1127	
7878	1113	
7879	1100	

21 Hole 1½ 2½ 237	7880	1110	1040	
7884 Hole Punched Square —				
7884 oxidized 708	7881	1110	1030	
23.9 —				
21% K	7882	1097	1030	
Dup 7880	7883	947	1067	
21% K 2 gms Co(OH)₂	7884	953	1067	
	7885	957	1057	
Reg Tubes 3⅓ No 2 ff	7886	1147	890	
708 Bl - 4 ff 240	7887	1153	927	Co
4.1 ff 229 Burro Outside 5.94	7888	1133	867	
Dup 7601	7889	1197	1067	
after Tubes undersoak in NH₄	7890	1213	1100	
Then assembled. 4.1 ff 241.0 6.53	7891	1223	1053	
Blank	7892			
	7893			
	7894			
Reg Tubes 3½ No 2 ff 4.1	7895	717		
23.9 708 BO —	7896	757		
21% KOH. 2 grams NH_4	7897	783		
Dup 7895	7898	867	705	
21% K 2 gms Ammonia 2 g KOH	7899	833	653	Co
	7900	890	647	
Reg Tubes 23.9 708	7901	607	800	
4.1 No 2 ff	7902	813	763	Co
	7903	640	580	

50

7880	1030	Co
7881	983	
7882	983	
7883	897	set made probably [illegible]
7884	917	
7885	963	
7889	950	Co
7890	913	
7891	907	
7895		
7896		
7897		

Reversed 1 hour heat — 5/.K Ilm
24 Chamber To 21/.K Ilm

7916 A	1157	1077	1080	Co
7917 A	1163	1070	1060	
7918 A	1160	1087	1073	

Dup 7901	7904	1180	960	Set
	7905	1180	977	Carefully
5.96	7906	1197	983	
Dup 7901 Mould set apart 10/1000 -	7907	1200	993	Set
	7908	1193	920	Worse
6.07	7909	1213	993	
Rep tube No 2 fl 4.4 23.9 708 00 fingers put on to shatter ground — fan chamber 1 finger -	7910	1197	1067	Co
	7911	1197	1063	
	7912	1183	1073	
Dup 7910 fingers scattering both ground & Coke	7913	1173	1060	Co
	7914	1187	1073	
	7915	1193	1083	
Rep tube 2 fl 4.1 — 23.9 708 Run in 0.75 KOH. Flat. Reversed 1 hour burning 5/.6 21 KOH. Shattered up up 66 ml	7916	1200	1077	Co
	7917	1200	1063	
	7918	1203	1100	
Tube burnt wrong not 32 grams 708 — 4.4 No 2 fl 23.9 708 00 - 21 KOH. 5.92	7919	1163	987	Set carefully
	7920	1133	937	
	7921	1153	987	
Rep tube shattered twice as which wrong Marked. 4.4 No 2 fl 23.9 708 00 21/K - 6.15	7922	1180	1087	Co
	7923	1190	1093	
	7924	1180	1080	
Rep tube 4.4 No 2 fl 23.9 708 00	7925	1137	1010	Co
	7926	1147	973	
	7927	1157	1010	

Reg tubes – 7080D. 90 of them 10 of general flake then 80 rolled with 4% KOH solution – Giving 100 then 20 more – use them with 44 oz of 248 of mix. 21% KOH. 5.98	7928	1063	1007	
	7929	1067	1020	
	7930	1080	1003	
Reg tubes 44 oz of 23.9 708 after tubes filled weight pounds 25 times –	7931	1183	1063	
	7932	1180	1087	
	7933	1170	1043	
Reg tubes packed inside with cells 110 – in work KOH, packed 44 – 21% KOH. 6.25	7934	1160	1007	
	7935	1150	1027	
	7936	1150	1020	
Reg tubes – 44 oz of – 24.1 708 – 1st mark 2 lb wt 2nd mark 2 ½ – 3rd mark 3 ½ lb wt 24.4 6.00	7937	1100	1017	
	7938	1090	1033	
	7939	1103	1060	
Reg tubes. 44 oz of 24.1	7940	1090	883	C
	7941	1127	1050	
	7942	1123	990	
Reg except graphite mix. weights 1st mark Reg 2"	7943	793	737	C
	7944	857	730	
Dep freeing with	7945	867	747	
Reg tubes 44 oz of 4 ll 708 3 ½ – run 6% KOH 2 gm – 1.011 after 2 runs second time 21% K 2 gm – 1.011.	7946	1043		
	7947	1037		
	7948	1087		
Reg tubes 4 oz of 3 ½ wt 708 7D .24 – 60 ch in 100 cc containing 1 gm LiOH – then soak old LiOH flake seem safer than other tests –	7949	1200	1143	
	7950	1190	1107	
	7951	1183	1113	

7937	977		Co
7938	1043		
7939	1050		
7946	1150	1157	Co
7947	1140	1133	
7948	1177	1130	
7949	1050		Co
7950	993		
7951	1043		

Reg. Cathode 24 – 4 No 2 f.			
Tot in $HgCl_2$ in H_2O 24 hrs	7952	1140	1127
washed free $HgCl_2$	7953	1100	1093
21% KOH — 6.60	7954	1100	1107
Flix 1045 Ra from NH_4 Suef.	Off Nos		
Good pocket, by machine –	Fe		
33½ oz wt –	55		
Not pressed	56		
Cooler Cal 162	57		
Smooth press only 100 at.	58		
	59		
Cooler Cal 134	60		
Corrugated only 150 at.	61		
Cooler Cal 140 –	62		
	63		
Dup 7952	7955	1077	1223
2 L. Off 21% 12 6.38	7956	1083	1230
	7957	1063	1230
Dup 7952 except green	7958	1110	1150
Soaked 24 hrs Globules –	7959	1130	1177
Always out $HgCl_2$ soaked all out the KOH off 6.55	7960	1137	1173
Dup 7958	7961	1030	1263
21% NaH 2 grms of 10 off – 6.51	7962	1027	1257
	7963	1020	1253

7952	1083		
7953	1043		
7954	1083		
7955	1130		
7956	1133		
7957	1150		
7958	1080		
7959	1097		
7960	1077		
7961	1207		
7962	1193		
7963	1213		

Reg tubes repeated in the KOH (washed out & clean repeated 24 708 4 No 2 of 21./KOH. 6.17	7964	1213	1103	
	7965	1210	1067	
	7966	1233	1113	
Reg tubes 4 of No 2 24 708 feeds of 1 from yellow Vase 1 range was on light blue — 21./KOH.	7967	1067	1043	Co
	7968	1060	1030	
	7969	1057	1033	
Reg tubes No 2 of 4 — 708 Bd 4.4 of 22.87 21./KOH. green plus green 4 Cu	7970	1127	1033	Co
	7971	1127	1033	
	7972	1110	1033	
Reg tubes 4.4 No 2 of 708 Bd plus green just repeated of 7901 21./KOH.	7973	1090	1060	Co
	7974	1080	1067	
	7975	1067	1027	
Reg tubes 8 80 of 1/3 mg Thick orange with light 3.1 of 23.8 708 Bd — 21./KOH	7976	1163		
	7977	1173		
	7978	1140		
Dep 7976 flask 1/5 thicker 2 of 23.8 green 708 Bd — feeds unequal — 21./.	7979	827		
	7980	750		
	7981	830		
Reg tubes 24 708 Bd — on shelf — 2.1 (Cu) Bd of — 1.14 of dropped slow [illegible] 21./KOH. 22.97	7982	783	780	Co
	7983	817		
	7984	760		
Dep 7982 21./KOH — 2 green 1.04 — 5.15'	7985	780		Co
	7986	630		
	7987	690		

Carelessly broken
[illegible]

7964	1020	Co
7965	977	
7966	1043	
7976	1107	Co
7977	1073	
7978	1007	
7979		
7980		
7981		

Dup 7992	7988	810	
Group from soaked ammonia soln	7989	790	
but probably weakly acid —	7990	753	
boiled KOH, washed from KOH, dried			
21/KOH 34 105 / 2316 708 6.105			
Dup 7988	7991	837	
21/KOH 2 grms 1.064 —	7992	800	
	7993	763	
Replates 21/KOH 34 105 / 24 708	7994	833	
boiled up hard in 5% — 5% 21 1194	7995	900	
washed from KOH — just boiled with	7996		
KOH, gets blackened on out J.			
21/KOH —			
Dup 7994	7997	all 21/KOH cause	
21/KOH 2 grms 1.064 after	7998	out of tubes	
5' washed out		not perfect	
	7999		
Replates 708 Dup B.06 ANL 64	8000	933	
Sample no. used 7619 but 1/2 strength	8001	903	
boiled 5 times with KOH washed out	8002	827	
boiled 5 times with KOH washed from 5 times			
34 105 / 237 708			
21/KOH 1 grm 1.064			
Dup 8000	8003	897	
21/5K 2 grms 1.064.	8004	880	
	8005	877	
Dup 8000	8006	1177	
Product from soaked 1/4	8007	1173	
strength	8008	1170	
21/KOH —			
Dup 8006	8009	1013	
21/KOH 2 grms 1.064 —	8010	960	
	8011	970	

Dup 8000			259
Except [illegible] 1/8	8012	1037	
[illegible]	8013	1027	
3.9 NO2 & 2 4.1 708 -			
21/K	8014	1027	
Dup 8012			
21/K 2 gram LiOH,	8015	973	
1/8 & 1/4 [illegible]	8016	927	
[illegible]	8017	887	
Dup 8000			
Except 1/4 [illegible]	8018	1027	
[illegible]	8019	1017	
21/ 3.9 NO2 (23.8	8020	1037	
Dup 8018			
21/KOH 2 grams LiOH -	8021	867	
	8022	877	
	8023	860	
Dup 7982			
Except [illegible] 4 NO2 squares &	8024	907	998
4.2 & 23.8 -	8025	860	958
21/KOH 6.02	8026	857	943
Dup 7982			
Except 4 NO2 NO2 squares &	8027	970	1200
23.8.	8028	987	1217
21/KOH 2 gram LiOH -	8029	1007	1240
Dup 7988			
Except 4.2 NO2 squares &	8030	883	970
24.5	8031	893	970
21/.	8032	907	998
Dup 7988			
Except 4.2 NO2 2 squares &	8033	1017	1250
24.5 9 - 21/KOH 2 gram LiOH.	8034	1017	1210
	8035	1017	1210

8024	933		
8025	893		
8026	883		
8027	1233		
8028	1283		
8029	1300		
8030	893		
8031	887		
8032	937		
8033	1290		
8034	1263		
8035	1283		

Dep 8000 Except 4.5 No 2 sprouts f 24.4 grm	8036	1017	1087
	8037	977	1023
21% KOH —	8038	983	1033
Dep 8000 — Except 4.5 No 2 sprouts f 24.4 g	8039	1030	1200
	8040	1006	1200
21% KOH 2 grms LiOH —	8041	1037	1200
Dep 8006 Except 4.5 No 2 sprouts f 24.5 g	8042	1213	1150
	8043	1270	1140
21% KOH —	8044	1213	1143
Dep 8006 — Except 4.5 No 2 sprouts f 24.5 g	8045	1137	1243
	8046	1163	1200
21% KOH 2 grms LiOH.	8047	1127	1233
Dep 8012 Except 4.5 No 2 sprouts f 24 grm	8048	1097	1103
	8049	1087	1060
21%	8050	1043	1063
Dep 8012 Except 4.5 sprouts f — 24 g	8051	1093	1233
	8052	1100	1237
21% KOH 2 grms LiOH —	8053	1100	1223
Dep 8018 — Except 4.5 No 2 sprouts f 24 g	8054	1123	1000
	8055	1083	970
	8056	1110	983
Dep 8018 Except 4.5 No 2 sprouts f 24 g	8057	1047	1133
	8058	1033	1100
21% KOH 2 grms LiOH.	8059	1023	1097

8036	1017		
8037	960		
8038	980		
8039	1200		
8040	1200		
8041	1217		
8042	1080		
8043	1050		
8044	1057		
8045	1253		
8046	1177		
8047	1203		
8048	1017		
8049	977		
8050	997		
8051	1230		
8052	1240		
853	1217		
8054	957		
8055	907		
8056	917		
8057	1147		
8058	1150		
8059	1103		

Reg tubes 7 oz plate Reg thick 705 gram 21% KOH. 2 grams silicate K Endhaeele	8060	963	1017
	8061	943	1033
	8062	987 avg	1067
Dup 8060 21% KOH. 2 gms LiOH. 2 grams silicate K	8063	1016	1060
	8064	1040 avg	1077
	8065	1003	1090
Dup 8060 21% KOH. 2 gms LiOH. 3 grams silicate K	8066	990	1017
	8067	990 avg	1013
	8068	997	1022
Dup 8060 21% KOH 2 gms LiOH. 4 gms silicate K	8069	940	827
	8070	930 avg	790
	8071	867	717
Dup 8060 21% KOH 2 gms LiOH 5 grams silicate K	8072	650	370
	8073	827 avg	517
	8074	780	463
Reg tubes 8½ 237 4.072 grams KOH 24 705 - coated. Gone Electro KOH 5 minutes dried 10 minutes dried KOH 5% dried remained dried. Dried in 21% KOH 6.33	8075	1023	1060
	8076	1023	1083
	8077	1000	1067
Dup 8075 21% KOH 2 gms LiOH 6.21	8078	1137	1400
	8079	1080	1400
	8080	1130	1407
Dup 8075 Soaked 13.0 Ah/cl 60 of 10 minutes 4.3 of 22.9 21% KOH 6.66	8081	1107	1180
	8082	1100	1150
	8083	1090	1183
		avg.	1171
		1099	72 better

8060	1010		
8061	1027		
8062	1033		
8063	1070		
8064	1083		
8065	1033		
8066	973		
8067	947		
8068	857		
8069			
8070			
8071			
8072			
8073			
8074			
8075	1063		
8076	1058		
8077	1057		
8078	1303		
8079	1267		
8080	1333		
8081			
8082			
8083			

8084 6:66 — Dup of this just
made shows only 6:05 —
Same stuff except it has green — open
Mind tube 2 or 3 to 10 secs + dried
out — Mixture in 1st tube (10) 8084
Must have lubricated green — cause
Excess — Watch Capacity +
Ore results =
Dumps on 8084 — 270
" " 8460 257
This would put more flake in 8084 +
thus account for sound of the Extra
heavy wt —

	1265 ave	1445 ave 25
Dup 8081	8084 1230	1447
21% KOH 2 gms 1:04.	8085 1227	1457
6:66	8086 1220	1463
Dup 8075 —	8087 937	1120
Except leaked 20 min in BICB HHCF Sol One	8088 943	1110
21% KOH	8089 943	1077
Dup 8087	8090 1090	1383
21% KOH 2 gms 1:04.	8091 1100	1393
	8092 1080	1390
Dup 8075 —	8093 910	1120
Except tank 10 min in BICB HHCF Tank — Not equal Then dried —	8094 917	1110
21% KOH	8095 930	1133
Dup 8093	8096 1087	1333
21% KOH. 2 gms 1:04	8097 1087	1417
	8098 1060	1380
Reg Lab 3 5 237	8099 1057	1117
41 102 2 gms of 24 — The green	8100 1093	1323
21% KOH — 8100 21% KOH	8100	
Reg Lab 3 5 237 — 2 [illegible]	8101 1023	1047
41 102 2 gms of 24 — [illegible]	8102 1000	1050
21% KOH	8103 987	1040
Dup 8101	8104 1123	1333
21% KOH 2 gms 1:04.	8105 1103	1307
	8106 1067	1267

	50	100
8084	1470	
8085	1460	
8086	1413	
8087		
8088		
8089		
8090	1333	
8091	1357	
8092	1340	
8093		
8094		
8095		
8096	1097	
8097	1273	
8098	1263	
8099	1127	
8100	1253	
8101	1063	
8102	1063	
8103	1067	
8104	1247	
8105	1227	
8106	1227	

		Cold	25
Eclipse No 5 - Dup 8101 but [illegible]	8107	990	1167
21% NOH	8108	1000	1077
	8109	1027	1083
Dup 8107	8110	1117	1287
21% NOH 2 gms LiOH.	8111	1077	1267
	8112	1077	1303
Eclipse No 1 No 2 fr 4 - Bicg HNO [illegible]	8113	957	1167
	8114	987	1157
21% NOH	8115	987	1170
Dup 8113	8116	1123	1380
21% NOH 2 gms LiOH -	8117	1073	1333
	8118	1120	1350
Eclipse No 2 Dup No 1 Except 1 gm	8119	1087	1080
	8120	1070	1163
21% NOH	8121	1050	1127
Dup 8119	8122	1190	1200
21% NOH 2 gms LiOH,	8123	1193	1303
	8124	1210	1333
Eclipse No 3 - Dup 8119 Except	8125	903	1148
	8126	937	1133
	8127	917	1117
Dup 8125	8128	1133	1267
	8129	1120	1277
21% NOH - 2 gms LiOH.	8130	1080	1283

	50	100	150	200	250	300
8107						
8108						
8109						
8110	1260					
8111	1247					
8112	1247					
8113	1093					
8114	867					
8115	1107					
8116						
8117						
8118						
8119						
8120						
8121						
8122						
8123						
8124						
8125						
8126						
8127						
8128						
8129						
8130						

No 2 H. Sp 4 - Cohesion No 8 B. W. OH separate Reg Tube 3 No 7 Conc B. S. OH NO 2 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]	8131	1027	1197	
	8132	1010	1180	
Dup 8131 21-6 ROH 2 gms L. OH -	8133	1173	1333	
	8134	1190	1380	
Dup 8133 Field Moist Cathode - separated [illegible] Conc. of [illegible] than [illegible] 21-6 ROH, 2 gms L. OH -	8135	1150	1300	
	8136	1150	1323	
Cohesion No 6. B. W. OH separate Reg Tube 3 - 237 - No 2 Sp 4 H	8137	1063	1073	
	8138	1043	1073	
	8139	1100	1100	
Dup 8137 21-6 ROH - 2 gms L. OH -	8140	1100	1250	
	8141	1090	1243	
	8142	1097	1257	
Reg Tube 4 No 2 1/2 for O X Cathode [illegible] 10 mm BiO3 [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] 21/ROH	8143	890	1107	
	8144	883	1097	
	8145	860	1090	
Dup 8143 21-6 ROH 2 gms L. OH -	8146	1007	1340	
	8147	1013	1323	
	8148	1013	1303	
Dup 8146 Reading 12 to 15 hours on Cathode ground Conc	8149	1043	1303	
	8150	1013	1287	
W Broke -	8151			
	8152			

8135	1363 ✓			
8136	1297			
8140	1067			
8141	1133 ✓			
8142	1153			
8146	1377			
8147	1393 ✓			
8148	1393			
8149	1400 ✓			
8150	1383			

X spr flake

This flake is the most beautiful wd ever had — it was very bright after oxidization — Decay reduced it of dull red on very dark day = The flake was oxidized [illegible] but only ½ of pieces were transp others were not

This is good for weight

Reg tubes 3½ 237 X No 2 spr ft ½ ox Edison No 9 Bi mott sep 15 7.29 grain 237	8154	963	917	
	8155	950	930	
21 K Nott	8156	963	923	
Dup 8154 21 K Kal. Oth. 2 gr	8157	1073	1387	
	8158	1047	1273	
	8159	1050	1260	
Reg tubes 3½ 237 No 2 spr ft ½ ox 24 Edison No 10 Bi mott sept	8160	1177	1133	
	8161	1180	1140	
	8162	1180	1130	
Dup 8160 21 K Nott 2 Lost.	8163	1067	1220	
	8164	1070	1227	
	8165	1067	1227	
Reg tubes 3½ 237 No 4 X spring ½ ox 29 f 23.87 Edison No 11 Bi. Ni	8166	1007	1093	
	8167	983	1063	
	8168	990	1057	
Dup 8166 21 K 2 Lost.	8169	1137	1280	
	8170	1139	1353	
	8171	1130	1243	
Reg tubes 3½ 237 24 grain Ra 718 Num 20 29 No 2 ½ Chuck Square Consumed quickly than No 2	8172	1217	1167	
	8173	1227	1180	
21 K Nott 2 grains Lost 6.09	8174	1200	1157	
Dup 8172 21 K Nott 2 grains Lost 6.09	8175	1147	1230	
	8176	1170	1267	
	8177	1143	1270	

*split —

8157	1267		
8158	1247		
8159	1237*		
8163	1203		
8164	1230		
8165	1227		
8166	1220		
8167	1153		
8168	1210		
8169	1243		
8170	1307*		
8171	1237*		
8172	1177		
8173	1193		
8174	1153		
8175	1243		
8176	1267		
8177	1270		

Reg Lutes 3½ 237 3.9 No 2 ½ 3.97 ½ 242 Heat [illegible] [illegible] 6079 – Mass action –	8178	1187	1157
	8179	1207	1143
21% KOH. 6.47	8180	1170	1100
Dup 8178			
21% KOH 2 grms LiOH.	8181	1217	1253
	8182	1200	1237
	8183	1200	1253
Reg Lutes 3½ 237 No 2 ½ 3.97 ½ 3.9 – Ra 707 100 cc cook 1 filtered adsorbed [illegible] 24 – [illegible] 21% KOH. 6.22	8184	1200	1173
	8185	1207	1190
	8186	1167	1160
Dup 8184			
21% KOH 2 grm LiOH.	8187	1193	1233
	8188	1190	1283
	8189	1197	1250
Reg Lutes 3½ 237 No 2 ½ 3.97 3.9 – 24 – Edmund No 12 Eluted [illegible] – KOH then washed out from a 25% buffer – 21% KOH.	8190	1130	1070
	8191	1173	1030
	8192	1183	1057
Dup 8190			
21% KOH 2 grms LiOH.	8193	1043	1183
	8194	1093	1240
	8195	1040	1187
Dup 8190 but [illegible] Edmund No 13 – [illegible] [illegible] KOH washed out. 21% KOH	8196	1097	1047
	8197	1057	1027
	8198	1080	1043
Dup 8196			
21% KOH 2 grms LiOH	8199	970	1133
	8200	977	1123
	8201	997	1123

8178	1153			
8179	1167			
8180	1107			
8181	1303			
8182	1287			
8183	1300			
8184	1170			
8185	1200			
8186	1177			
8187	1267			
8188	1313			
8189	1300			
8190	1063			
8191	1108			
8192	1137			
8193	1170			
8194	1223			
8195	1177			
8196	1047			
8197	1023			
8198	1023			
8199	1133			
8200	1130			
8201	1133			

Some combination here on drying green —

While just dry enough to flow — Happened it was too wet - green chloride to plump several times + water was found in bottom of mould should be little dry —

Dep 8190 Except Eluem No 14. grain on and some K_2CO_3 left in strip then made in tube + worked out.	8202	970	953	Co
	8203	977	943	
21/6 KOH	8204	990	973	
Dep 8202	8205	823	1000	Co
21/6 KOH 2 grms LiOH	8206	810	963	
	8207	803	980	
	8208			
	8209			
	8210			
	8211			
	8212			
	8213			
Reg tube 3½ 237 No 2 ½ oz 20 24 hr reg green (usually) water & dried only enough to feel well	8214	4 grms 427	Co	Chloride Red green Green
21/6 KOH. 6.42	8215	413		
	8216	400		
Dep 8214	8217	460	Co	
21/6 KOH. 2 grms LiOH	8218	447		
6.50	8219	417		
General pure Nickel tube. Nickel wire + nitrides 4 ni wire 23.9 70 Cd 3.4 ox No 2 ½ oz	8220	1223	1180	
21/6 KOH. 6.04	8221	1217	1167	
	8222	1220	1183	
Dep 8220	8223	1117	1280	
21/6 KOH 2 grms LiOH.	8224	1117	1263	
	8225	1110	1267	

8220	1160			
8221	1140			
8222	1147			
8223	1268			
8224	1263			
8225	1260			

Dup 8220			
25% KOH. 2 gms L.OCH.	8226	1283	1808
	8227	1260	1247
	8228	1283	1273
Dup 8220			
27% KOH. 3 gms L.OCH.	8229	1370	1397
	8230	1360	1407
	8231	1367	1400
Repeat 3 of 237 3.9 no 2 Sep ox f — 24/Edison 17 Cab strands prep — porous —	8232	1237	1190
	8233	1223	1177
21% KOH. 5.95	8234	1227	1197
Dup 8232			
21% KOH 2 gms L.OCH —	8235	1107	1217
	8236	1117	1230
	8237	1107	1200
Dup 8232 Except Edison 16 Cu Cab prep — porous prep —	8238	1210	1143
	8239	1197	1140
21% KOH 5.98	8240	1213	1157
Dup 8238			
21% KOH 2 gms L.OCH.	8241	1080	1197
	8242	1060	1183
	8243	1053	1170
Dup 8232 Except Edison 15 prep treated 1000cc 20 gm Mg — 6 hours — 1 gm K2CO3 and 1 gm Na2CO3 with Tabs of 10% KOH, washed then boiling pot sized into 21% Kg 21%	8244	1140	1110
	8245	1140	1110
	8246	1147	1107
Dup 8244			
21% KOH 2 gms L.OCH.	8247	1027	1250
	8248	1007	1227
	8249	1050	1247

Note

Note

	8226	1360		
	8227	1358		
	8228	1353		
	8229	1433		
	8230	1438		
	8231	1433		
	8232	1177		
	8233	1167		
	8234	1183		
	8235	1223		
	8236	1230		
	8237	1197		
	8238	1130		
	8239	1123		
	8240	1143		
	8244	1087		
	8245	1087		
	8246	1093		

25

Reg Tubes 3¼ 227 No 2 ½ opp ox RA 1080. 10% Rees grade the precipit will turn in milking ½ bread not fast, drier to be opt. Hum 20 –	8250	1097	790	C
	8251	1113	720	
21/6 R04 –	8252	1067	690	
Dup 8250	8253	1107	787	C
21/6 R04 2 gm L.O.Ch.	8254	1140	833	
	8255	1140	800	
Reg Tubes Ox 233 just a little red 2 ½ ox 2 gp flakes –	8256	1210	1130	
	8257	1217	1140	
21/6	8258	1210	1113	
Dup 8256	8259	1130	1210	
21/6 R 2 gm L.O.Ch –	8260	1120	1220	
	8261	1117	1210	
Dup 8256 Except Tubes Ox 233 were at Tb Pedcock – 3.9 & 23.9 708 Bantuhm milk	8262	1193	1110	
21/6.	8263	1207	1113	
Dup 8262	8264	1210	1123	
21/6 R04 2 gm L.O.Ch –	8265	1113	1230	
	8266	1127	1213	
	8267	1103	1210	
Tubes Ox 230 higher black – effect – intention Stream milk 3.9 & 23.9 – 708 BD –	8268	1023	643	C
21/6	8269	1080	647	
	8270	1097	757	
Dup 8268	8271	1100	1097	
21/6 R 2 gm L.O.Ch.	8272	1100	1053	
	8273	1110	1097	

Note 1

8256	1083			
8257	1107			
8258	1080			
8262	1083			
8263	1057			
8264	1097			

Reg tube 3½ 237 No 2 ½ ox. 0.97 f – 24 g – Ethanol 18 soaked – 21% with 5 gram KI – filter washed out at 8:00 – 21% KOH	8274	1143	1083
	8275	1150	1100
	8276	1167	1087
Dup 8274 21% K 2 g LiOH.	8277	1067	1243
	8278	1087	1267
	8279	1050	1253
Reg tube No 2 ½ ox f – Ethanol 19 – soaked Cinnethyl alc washed out no KOH. 21% 6.00	8280	1230	1177
	8281	1223	1177
	8282	1223	1187
Dup 8280 21% K 2 gr LiOH.	8283	1127	1257
	8284	1120	1253
	8285	1107	1237
Dup 8280 Except Ethanol No 20 Ethyl Sol $HgCl_2$ washed out H alcohol $HgCl_2$ + H_2O 21% 6.43	8286	1097	1097
	8287	1113	1100
	8288	1113	1120
Dup 8286 21% 2 gr LiOH.	8289	997	1083
	8290	987	1023
	8291	1007	1000
Reg tube 4 f Ethanol 21 grams soaked 21 with 3 gram aluminum 21 washed out dried	8292	1047	1120
	8293	1077	1147
	8294	1052	1133
Reg 4 f – Ethanol 22 – soaked Cinc Sol $HgCl_2$ in H_2O + $HgCl_2$ (saturated solution) 5% KOH washed out	8295	1180	1093
	8296	1180	1117
	8297	1183	1130

8280	1133
8281	1150
8282	1107
8292	
8293	
8294	

all square floor

		Cold	25
Dup 8295	8298	1073	1250
21% 2 gms L.O.H.	8299	1060	1253
	8300	1057	1240
Reg Tubes 3½ 237 1°2 fC ½ ox- Ra 719 - on alternate days in O.D. 707 1/2 in filter 24 gms 6.32	8301	1200	1083
	8302	1183	1067
	8303	1197	1053
Dup 8301	8304	1163	1287
21% KOH 2 gms L.O.H.	8305	1167	1277
	8306	1163	1280
Dup 8301 Except Ra 719 Drained 3 hours in filter bag 6.33 21% KOH	8307	1183	1063
	8308	1177	1043
	8309	1183	1057
Dup 8307	8310	1133	1227
21% KOH 2 gms L.O.H.	8311	1130	1247
	8312	1153	1287
Dup 8301 Except 719 Ra drained 10 hours filter bag 6.06 21% KOH	8313	1137	1063
	8314	1163	1070
	8315	1147	1077
Dup 8313	8316	1103	1237
21% KOH, 2 gms L.O.H.	8317	1113	1237
	8318	1108	1233
Dup 8301 Except Ra 719 Drained 4 hours filter bag 6.71 21% KOH.	8319	1177	1057
	8320	1150	1027
	8321	1163	1043

24 hours best for 21% KOH

10 hours plum best for lasting

No yellow float

10.5 % Bi Metallic w. green

Yellow float

Do Gratte Assay

No yellow —

All grains flake 1/2 oz

Dup. 8319	8322	1170	1287	
21% KOH 2 grms L.O.O. 6.71	8323	1183	1308	
	8324	1180	1307	
Reg tube 3-5 237 N°2 flake 1/2 oz 798 24 cents gallon of benzene — [illegible] 21% KOH	8325	960	Co	
	8326	957		
	8327	793		
Dup 8325	8328	883	Co	
21% KOH, 2 grms L.O.O.	8329	883		
	8330	867		
Edison 28 — 719 Ra. 2 hour dream — Sample Cons Hy Cf Hly Cf 10 min-no mark dried. Then boiled 21% K 1hr then boiled 8% KOH. washed sample free Cl. 4 N°2 1/2 f 24 g — N°2 f 237 g 21% KOH, 6.58	8331	1043	1227	
	8332	1027	1213	
	8333	1027	1217	
Dup 8331	8334	1150	1450	
21% KOH 2 grms L.O.O.	8335	1160	1467	
	8336	1107	1453	
25 Edison same as 24 except washed twice gently Cons Hly Cf Hly. then KOH boiled washed 4.2 N°2 1/2 f 239 grms 21% KOH. 7.19 Ra 2 hour 7.2 S S	8337	1163	1313	
	8338	1127	1340	
	8339	1173	1333	
Dup 8337 —	8340	1200	1493	
21% KOH 2 grms L.O.O.	8341	1260	1503	
	8342	1267	1513	
Edison 28 — 1/2 strength Cons Hly Cf Hly Cf — 708 Ra	8343	937	1097	
Edison 27 — 4.2 N°2 1/2 f 24 g 10 min dream	8344	937	1097	
21% KOH,	8345	923	1087	

Dup 8343	8346	1110	1	
21% KOH. 2 grms LiOH.	8347	1107		
	8348	1077		
Edison 29 719 Ra. 2 hours drying 10 grms soak 1/2 strength Conc BaCl2 Wh ppt 2 quick washes with Conc Wh ppt [illegible] [illegible] see white 10% flow and [illegible] [illegible] [illegible] yellow 4.2 N+2 % F 24 T	8349	1047	1200	
	8350	1017	1200	
21% KOH	8351	1040	1207	
Dup 8349	8352	1163	1390	
21% KOH .2 grms LiOH.	8353	1143	1367	
	8354	1170	1407	
Edison 27 719 Ra. 2 hours drying soaked 1/2 strength Conc BaCl2 Wh ppt 10 wms 2 washes [illegible] — Edison 1.9 % 25 drying Geig KOH 10% washed out fill 5 yellow 4 N+2 % F 24 T	8355	1057	1193	
	8356	1057	1190	
21% KOH	8357	1030	1167	
Dup 8350	8358	1143	1410	
26% KOH 2 grms LiOH,	8359	1147	1433	
	8360	1170	1433	
Edison 31 708 pretty Conc BaCl 20 wms soak dried — [illegible] 1% 504 2 hours washed and then [illegible] 5% KOH washed out	8361	1143	1127	
	8362	1150	1133	
21% KOH.	8363	1160	1130	
Dup 8361	8364	1033	1100	
21% KOH 2 grms LiOH —	8365	1030	1120	
	8366	1023	1117	
Edison 30 Dup of Edison 29 [illegible] 708 grms [illegible] KOH [illegible] yellow —	8367	923	1067	
	8368	927	1083	
21% KOH.	8369	923	1060	

yellow float

Flow tube was 1st Run yellow clear

1st Run —

No yellow float.

Dup 8367	8370	1063	1393	
21% KOH, 2 grms LiOH –	8371	1077	1387	
	8372	1033	1327	
Edison 32 – Cmc Bacl 708	8373	1230	1197	
Scraped 1 ½ h – Dried 30 – cooled NaSO4	8374	1227	1193	
powder, but turned down rapidly – [illegible]	8375	1233	1193	
21% KOH				
Dup 8373	8376	1137	1197	
21% 2 grms LiOH	8377	1140	1200	
	8378	1130	1217	
Edison 33 – [illegible]	8379	1083	1360	
21%	8380	1010	1300	
	8381	1023	1323	
Dup 8379	8382	1130		
21% KOH 2 grms LiOH.	8384	1057		
		760.		
Edison 35 Anthracene –	8385	1080	1023	C6
4 gl ½ – 24	8386	1100	1040	
4.5 – 24.4 21% KOH	8387	1090	1040	
Dup 8385	8388	1093	1150	C6
21% KOH, 2 grms LiOH.	8389	1100	1133	
	8390	1107	1133	
Edison 36	8391	1167	1117	
Dmbacsonk Bacl NaSO4 –	8392	1190	1143	
21% KOH.	8393	1180	1120	

			25	
Dup 8391	8394	1063	1117	1117
21% KOH 2 grms LiOH —	8395	1073	1120	1120
	8396	1077	1117	1117
Edison No 40	8397	1057	1040	
Soak Cne Ut NO3 and soak KOH —	8398	1073	1077	
21% KOH 4.2 ½ f 24.3 —	8399	1073	1053	
Dup 8397	8400	1030	1127	1127
21% KOH. 2 grms LiOH —	8401	1040	1130	[illegible]
	8402	1037	1130	[illegible]
Edison 37 BaCl2 NSO4	8403	1203	1150	
2 dipsar-soaks ½ f - 4.5 - 24.1	8404	1217	1167	
21% KOH —	8405	1210	1150	
Dup 8403	8406	1113	1150	
21% KOH, 2 grms LiOH —	8407	1117	1130	
	8408	1130	1163	
Edison 43	8409	1213	1210	
Chromate K — BaCl2 one soak — 4.2 ½ f 24.2	8410	1197	1210	
21% KOH.	8411	1223	1230	
Dup 8409	8412	1133	1250	
21% KOH. 2 grms LiOH.	8413	1147	1240	
	8414	1147	1233	
Edison 39 —	8415	837	893	
KWO3 BaCl2 2 soaks.	8416	860	913	
4.5 ½ f 24	8417	820	887	
21% KOH.				

Notes.

Should be a counter of lumps so can check up as if grain feeding right -

Notice grain thru 20 fines in series grind up in feed hopper as chide comes out, tried it ~~much can grinding~~

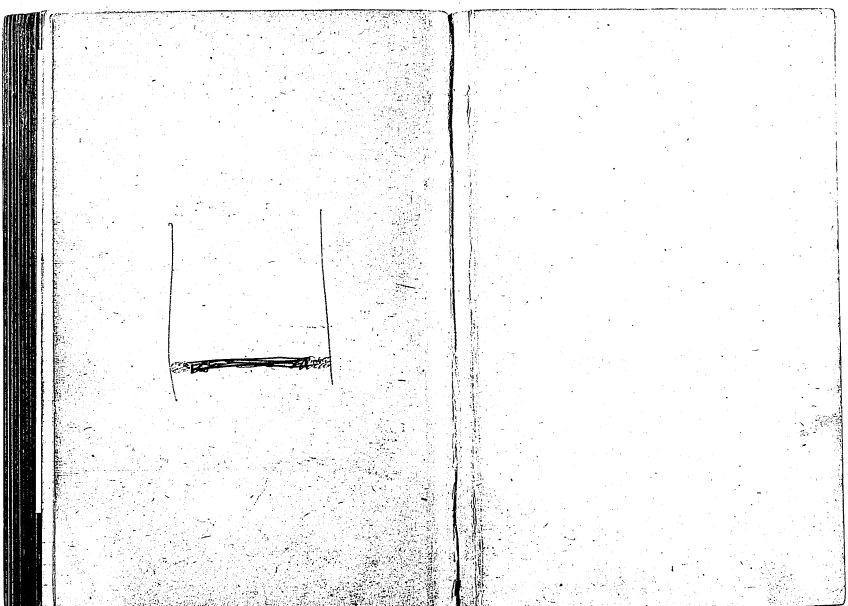
Perhaps roughened soft plunger better than hard polish as it would tend to prevent flow

Both the springy flake should be cut as floor least as it wont pack well + plunge between each blade - the mix will not change to expand -

Notice dif of 200 mlg between 2 ½ + 3 lbs of which is equivalent to 1/5 of length of the tube -

1st Cold Run

5530	985	1162	1175	1185	1183	Zero Run
31	981	1135	1146	1156	1157	
32	963 1164	1137 1165	1150 1159	1163 1164	1165 1165	1173
33	996	1180	1200	1215	1217	
34	1010	1190	1190	1200	1207	1176
35	1011 1167	1180 1163	1196 1162	1205 1167	1210 1161	
36	950	1145	1145	1146	1145	
37	967	1150	1142	1142	1137	1177
38	1013 1177	1200 1163	1185 1157	1175 1174	1177 1163	
39	1067	1227	1210	1206	1207	
40	1085	1255	1237	1235	1233	1109
41	1075 1174	1246 1163	1235	1232 1167	1232 1164	
42	1077	1235	1211	1207	1207	
43	1072	1212	1200	1196	1195	1133
44	1078 1164	1237 1167	1220 1160	1215 1164	1212 1165	1 hundred
		2.0 ft				
5846	1166	1310	1312	1325	1337	
47	1107	1317	1327	1325	1337	27
48	1155	1377	1373	1370	1377	
49	1137	1325	1317	1310	1307	
50	1135	1342	1332	1325	1320	25
51	1167	1347	1335	1330	1325	
55	995	1225	1225	1212	1192	
56	1027	1225	1225	1207	1189	21
57	1055	1237	1230	1212	1192	
7248	983	1153	1163	1167	1147	
49	957	1150	1167	1170	1150	
50	963	1169	1180	1177	1160	
	966	1159	1170	1171	1159	



[ITEM FOUND IN BOOK]

East Orange, N.J.
April 15, 08.

Mr Edison:-

The following tubes were made to-day.

9431 Greenleafs # 11-12 + 13 Flake
Rd #718 green, same as used on #9359
24 Green 4th flake # 11-12 + 13.
Flake 4.4 Green 241 6 Rings
Tubes slightly opening 265 dumps wt 7.378
9432 272 " wt 7.451
Flake Bulky, same as #3 Acid treated flake,
9433 Leafs. of #9431
21% KOH. 2. gms LiOH.
276 dumps wt 7.443
9434 276 " wt 7.508

I asked Rogers to make me a slide for the hydrate side of the

[ITEM FOUND IN BOOK]

tube machine with the same size hole in it, that he was using on his long tube machine.

John Clt had it fitted to the small tube machine in room #12.

The reason I done this was it seemed to me that their machine was not giving an average over .021 milligms per thump of green, where as my machine seemed to have a smaller sized hole, and was giving an average of .0241 milligms per dump of green.

#718 Green Sample #5

25 dumps

Tapped slide gently by hand.	Raw machine with plunger tamping green in a tube.

[ITEM FOUND IN BOOK]

3.

Tapped by hand		Plunger tamped	
.707 Milligrams	.680 Milligrams	.649 Milligrams	.655 Milligrams
.702 "	.690 "	.656 "	.615 "
.687 "	.680 "	.688 "	.621 "
.700 "	.680 "	.603 "	.621 "
.703 "	.674 "	.639 "	.630 "
.675 "	.668 "	.634 "	.616 "
.672 "	.672 "	.646 "	.608 "
.682 "	.664 "	.630 "	.617 "
.676 "	.660 "	.656 "	.612 "
.665 "	.663 "	.645 "	.610 "

718 Green Sample #6. 25 dumps.

Tapped slide gently by hands.		Raw machine and let plunger tamp grain in a tube	
.697 Milligrams	.694 Milligrams	.643 Milligrams	.668 Milligrams
.695 "	.695 "	.652 "	.675 "
.691 "	.692 "	.655 "	.660 "
.694 "	.697 "	.663 "	.666 "
.698 "	.682 "	.662 "	.647 "

[ITEM FOUND IN BOOK]

4.

Tamped by hand		Tamped by plunger	
.691 milligrms	.683 milligrms	.649 milligrms	.652 milligrms
.689 "	.685 "	.641 "	.656 "
.692 "	.693 "	.660 "	.654 "
.687 "	.685 "	.657 "	.666 "
.683 "	.690 "	.650 "	.654 "

I told Rogers about the loading weights I got with my machine and his slide being a good deal higher than he got, and his machine with the same slide.

Yours Respectfully.
Walter Archer.

[ITEM FOUND IN BOOK]

[FROM RALPH ARBOGAST]

Mr. Edison

Question about mixing #716 and 21 [illegible] but the 3 [illegible] 30 [illegible] and sent it off to the lab [illegible]

The following are the results given I have in my [illegible]

#716 - 33[illegible] 1/2 [illegible] filtered [illegible]

717 - 330 " 1/2 " " " " "

718 - 390 " 1/2 " " " " "

719 - 148 " 1/2 " filtered in tap 10 hrs dist [illegible]

720 - 298 " 1/2 " " " " 2 " " "

721 - 329 " 1/2 " " " " 2 " " "

Kindly advise me what to send Rodgers by return mail for they will probably be in need of it by that time.

What do you think of these analyses?

#721 - 2.16 % $NiCO_3$

#708 1.5 % "

#719 .88 % "

#707 2.40 % "

They are very interesting to me in view of [illegible]

[ITEM FOUND IN BOOK]

[FROM RALPH ARBOGAST]

3/3567 / 1189 3/3263 / 1088

2

Lab 6 707 [illegible] of [illegible]
you would be the pot that cause the
[illegible] with a little acid.
[illegible] analysis of [illegible] as
follows:

CO_2 = 80.6 %
Oxygen = 5.3 %
Nitrogen? = 14.1 %

After taking out the CO_2 we have a mixture
gas which I think might be air but the
% of O in it is too high for air so I
check that what Cobaltic Oxide was in the NiO_2H_2
had furnished the extra oxygen (16 %)
Think I have a fighting chance of getting
some gases to 1600 for a short time.
Hope you are recovering rapidly +
completely from your illness.

Ralph

Notebook, N-09-03-24

Dup 8415	8418	667	970
21% KOH, 2 grams LiOH –	8419	697	980
	8420	1027	1160
Edison 41 Conc NiCl2 soak 719 –	8421	917	980
1 quick wash – boil KOH, dip of Lucite	8422	913	990
21% KOH.	8423	830	907
Dup 8421	8424	1027	1147
21% 2 LiOH –	8425	1010	1130
	8426	1007	1123
Edison 38 RQ 719	8427	1023	970
Orthophosph – Bar Cl2 1 soak	8428	1050	990
Conductometers			
21% KOH. 45 f 1/2 23.7	8429	1057	983
Dup 8427	8430	926	513
21% 2 LiOH –	8431	590	467
	8432	597	—
Edison 43 K Metaphosphate, Bar Cl	8433	640	1063
one soak 719 RQ –	8434	593	1053
42 1/2 f 24.2	8435	593	1050
Dup 8433	8436	943	1077
21% KOH – 2 grams LiOH.	8437	913	1067
	8438	917	1027
Edison 44 Sat Cl. K SO4 – one	8439	1210	1220
soak 1 f 1/2 44 – 23.8 grams	8440	1207	1217
21% KOH – 719 – 6.24	8441	1217	1220

Co

Co

Co

Co

Co

			25
Dup 8439	8442	1127	1237
21% KOH, 2 grms LiOH.	8443	1130	1257
	8444	1133	1267
Elcon 45 Conc Stannous ~~Protoxide~~	8445	1273	1213
Bacl single-snake No 2 1/2 f gp 4.2 23.7.	8446	1277	1210
21% KOH.	8447	1290	1217
Dup 8445	8448	1147	1233
21% KOH, 2 grms LiOH.	8449	1150	1257
	8450	1133	1283
Elcon Conc Antimonite Powder	8451	767	843
Bacl - one-snake -	8452	770	847
21% KOH.	8453	760	840
Dup 8451	8454	727	1017
21% KOH, 2 grms LiOH —	8455	740	1027
	8456	767	1083
Reg Tubes 4.4 1/2 f. 24.4	8457	1177	1357
green 719 Ra - 3 or 4 grams	8458	1173	1297
Phenolic lining in cardboard -			
21% Z LiOH —	8459	1173	1287
green wood — 8081 - 4.2 1/2 f 24 grams	8460		1350
27% KOH 2 grms LiOH —	8461		1380
	8462		1370
~~Ra~~ 719 Ra wood cover Reg 1/2 f 4 1/2 24 grams Hi Carbon Grade d. with Phosphorus NaOH-Sun-Ion Dried	8463	1243	1167
— 1st Run 6 in - 21% KOH.	8464	1220	1107
Dup 8463 -	8465	1210	
21% KOH 2 grms LiOH.			
} add			

3 | 3773
1258

2 | 3721
1240

9 | 3127
1042

8481 starts with 1.23 flocks
washing 1/2 flocks squeeze OX
+ Reduced by Zn + Hg 25 re pumping

Drop 8463	8466	1197	1337
21% KOH 2 grms LiOH	8467		
	8468		
Reg Tuben 1½ 3½ 237	8469	1227	1200
½ sq f OX - treated 10 grms	8470	1210	1173
fl 8 drops Nitric a.d.J	8471	1200	1160
21% KOH.			
Drop 8469	8472	1220	1347
21% KOH 2 grms LiOH -	8473	1210	1367
	8474	1220	1333
Drop 8469	8475	1187	1123
Except flocks treated HCl -	8476	1183	1150
8 drops 10 grms fl 1000 cc H2O			
21% KOH.	8477	1200	1193
Drop 8475	8478	1200	1323
21% KOH. 2 grms LiOH.	8479	1197	1280
Zn + Hg flocks	8480	1207	1323
Reg tuben 1½ 3½ 237 6:39			
Sq f ½ ox flocks treated grms	8481	1217	1170
Zinc Hydroxide + Sp. gr. KOH,	8482	1220	1137
filtered - washed 20 - 1 hour			
+ boiled - cool treated in alloy of Fe	8483	1207	1137
21% KOH 2 hour 4:12 243			
Drop 8481 flocks not washed	8484	1200	1267
21K 2 LiOH	8485	1207	1257
6:39	8486	1200	1267

Acid treatment of flocks
remove Al_2O_3 + KOH

Dup 8481 Except tube of Tech welded Zinc Hydroxide 719 2 hour 21 K	8487	1157	1150
	8488	1153	1107
	8489	—	
Dup 8487 21 K 2 Lost.	8490	1183	1293
	8491	1167	1287
	8492	—	
Reg Tubes No 3 & 4.3 2 gm 719 2 hour — about 10 drops Nitric acid 100 N&W 21 K	8493	1200	1150
	8494	1217	1150
	8495	1200	1110
Dup 8493 21 K 2 Lost.	8496	1200	1257
	8497	1193	1277
	8498	1213	1277
Dup 8493 But some amount flake 16 drops Nitric — 21 K	8499	1217	1157
	8500	1200	1150
	8501	1200	1157
Dup 8499 21 K 2 Lost.	8502	1190	1273
	8503	1193	1300
	8504	1183	1257
Reg Tubes 4.4 ½ Zinc Flake 8 gm Rg 720 ½ w filtrate Adding Nitric 21 K	8505	1180	1170
	8506	1173	1160
Dup 8505 21 K 2 Lost.	8507	[illegible]	
	8508	1173	1333
Dup 8505 21 K 2 Lost.	8509	1187	1343
	8510		

Dup 8505	8511	1297	1230	
24 % KOH 6 gm LiOH	8512	1330		
	8513	1280		
Reg liter RQ 721 Xing filtered-dried [illegible] filtered in [illegible] [illegible] 4.4 % [illegible]	8514	1213	1218	
	8515	12	1227	
6.77	8516		1213	
Dup 8514	8517			
21 K 2 LiOH	8518			
	8519			
Tube shake weighed Zinc Hydrogen 719 RQ 2 hours	8520			
21 K	8521			
	8522			
Dup 8520	8523			
21 K 2 LiOH	8524			
	8525			
Dup 8520 first hour 4 ft which has not been oxidized but cooled soon Start up in Hydrogen Zn –	8526		Too flat	
	8527		Colder [illegible]	
	8528			
	8529			
	8530			
	8531			
Dup 8520 Tube shake weighed Zn Hydrogen but RQ 720 [illegible] 4.4 % [illegible] 24.3	8532			
	8533			
	8534			

Dup 8532	8535			
21K 2 L.O.G.	8536			
	8537			
Dup 8520 Gut case Ra 721 filtered, w. filt. paper tube which exceeded Zn H. 4.4 1/2 peak	8538			
	8539			
21K	8540			
Dup 8538	8541			
21K 2 L.O.G.	8542			
	8543			
Dup of 8337 Reg Tube 4.4 f .24 grn	8544			
	8545			
	8546			
Reg tube 1/10 3 f. 1/2 zero peak 721 Reg Dissolved by Stannic Solution 1/2 w filtered, low result 6.47	8547			
	8548			
	8549			
Dup 8547	8550			
21K 2 L.O.G.	8551			
	8552			
Reg tube Ra 721 1/2 W filtered, w. Stannic Solution 4.4 1/2 f zero peak. Light color 2 Lot 708 6.35	8553			
	8554			
	8555			
Dup 8533	8556			
21K 2 L.O.G.	8557			
	8558			

Cafhn	1338 —
Bifurcated Tube —	1313
Baroyl with H_2O added on probe	1331
Hyd. from Sulf —	1300
Brass eq — Electricity	1338
" 1 ft " "	1322
" 400 mtg " "	1322
" 2m "	1293
$SrSO_4$	1308
Na — $SrSO_4$ —	1305
Tube Hot —	1337
" 5 hours	1372
" 5 hot	1368
$SrSO_4$ —	1342
Bu Coly —	1340
Tube cool on Hydr.	1293 — 1335
Tig 2 —	1334
" 4 "	1330

2/2456
1293

36 mils 600 daily =
6000
216,000

Flake

9 = on Twirling goes to powder —
the very middle surface — rolls up
Easy — hard to get it to twirl slippery
applies lumps in it — lots doubles

1 A the 6 gal at from wheel Dally
making all the ox + redox Exp's
before Exply — Shiny — hard to Twirl
dont break up hardly any.

Ex No 1 Ox black reduced Fe Hy —
purified — now more matter but
not so much as No 3 — Easily
gathered together for twirling
dont break up much —

19 + 20 too slippery to twirl —
35 = Hard to twirl, dont break up much.
24 Not quite so hard to twirl as 35 —

[ITEM FOUND IN BOOK]

21 K 5 gms LiCl – Buttons powdered

Ex 2 –	2	two tubes burnt
– 11 – LiOH	2	"
E 11 21 KOH	1	"
8493 719 8 drops HNO_3	1	"
8514 = Ra 721 21K –	1	spht seam
8538 721 "	1	bottom spht –
8547 721 " Sterint	1	burnt
7668 Lithium carbonate	1	"

CO_2 ok K Silicate 2 gms with or without LiOH very bad – Ammonium Hydroxy Exceedingly bad on Brow –

Ra 718 very good see 8172. Reg 21 as good – 21 LiOH –

719 nates good with Reg 21 but Extra good with LiOH – + Bismuth –

Phos in presence LiOH very bad

720 good see 8508

[ITEM FOUND IN BOOK]

22 - Can hardly twirl -
23 " "
21 Hard to twirl breaks up -
4 Easy to twirl breaks up
8+10 Can hardly twirl -
5+7 Hard to twirl -

[ITEM FOUND IN BOOK]

1 A 8x6lk unpunched 791 –

800 Tab

1 Hour	1274 D	
2 hours	1251	
4 hours	1274 D	1270

700 Tab

1 Hour	1266	
2 "	1288 D	
4 "	1233	1267

1000 Tab

1 Hour	1240	
2 "	1283 D	
4 "	1246	1256

[illegible] flake H20 wash only

2 hours	1298	
4 "	1277	

[illegible] flake H20 wash only

[illegible] hours	1257	1223
[illegible] hours	1269	1240

[ITEM FOUND IN BOOK]

150

725A.	7354	6.21	1218	1.96
725B	7422	6.32	1325	206
" C	7551	6.48	1341	208
D	7669	6.52	1329	204
E	7813	6.64	1322	200
F	8069	6.82	1358	198
SG	6472	5.47	1114	203
X	8127	6.92	1331	192
SH.	7266	6.18	1236	200
SJ	7429	6.32	1277	202
SL	7368	6.32	1250	198
1088A	7164	6.10	1347	221
1086A	8041	6.85	1378	201
1088B	7009	5.97	1290	216
1088B	7963	6.77	1352	200
1089B	6034	5.14	1030	200
SM	7477	6.35	1332	210
Y	8100	6.90	1383	200

[ITEM FOUND IN BOOK]

708 Soak 4 mins Pick Washing wash gently Go

	Zoo	Hot	Exchanged 300
77 622	1167	830	
23	1150	677	
24	1160	790	

Rig 4 ½ 708 soak Cons Pick Wash 5 mins
o. The wash bowl 1504, - drain before KOH.

	250	Hot
8078	1160	847
79	1160	817
80	1160	787

Dup 8078 Except Soak 10 mins

	350	Hot
8081	1153	800
82	1207	673
83	1213	533

No Lidd.

Dup 8081 21 K 2 Lidd. Soak 10

	Zoo	Hot			400	Hot	3/2
	250	1053	1253	1127	1190	1150	1357
8084	1240	1087	1270	1090	1010	1148	1473
85	1311	1040	1230	1070	1163	1130	1350
86	1213						

Dup 8078 Except Soak 20 mins

	Zoo	Hot	350	Hot
8090	1243	590	1363	1127
91	1253	583	1350	693
92	1243	850	1250	1087

8157 - E Kog -

	250	Hot
58	1333	950
59	1343	990
	1260	767

Rig 2 h soak 1½ h Cons Pick Washing fluid (water)

	200	Hot	3/2
8789 -			
8789	1257	990	1333
90	1307	970	1450
91			

[illegible] not [illegible] after [illegible]
[illegible] Cloth acetone [illegible] of [illegible]
[illegible] 23 promptly Koh [illegible] 300

	200	Hot	1/2	1257	Hot 1000	1/2 1470
88322	1397	860	1553	990	993	1557
23	1300	900	1550			

C E 109 719-2-h— soak 1/2 hour B, Neg acetone
9116 Cuts Koh, no heat,

17	200	Hot	300	1267	Hot 983	1/2 1397
	1410	1107		1333	1033	1437
	1410	1040				

[ITEM FOUND IN BOOK]

		50	100	150
	Cold	Hot	Hot	Hot
9357		283	693	670
9381	1125	300	585	599
9385	1133	433	416	
9421	1171	415	423	
9429	1000	315		
9433	1223	381	583	
9445	1238	340	570	
9507	1156	571	540	
9623	1200	526		
9641	1094	428		
9660	1136	451		
9662	1135	420		
9672	1092	441		
9674	1090	455		
9676	1110	345		
9678	1156	368		
9706	1151	368		
9709	1069	352		
10231				
10235				
10239				

[ITEM FOUND IN BOOK]

Mr. Edison —

Do I understand from your wire that all Brass will have to be tested 150 hot runs before it can be used in the large cells, or am I to go ahead and make No. 0. K. for Rodgers the same way as I made #719-2 bus. gets 50 hot runs, and if O.K. use on the large cells?

Had I not better go ahead and make one batch every week (350 lbs) and get tests on it so when Rodgers is ready I will be ready, and thus avoid no holdups at this end?

I will make one batch every week (6) duplicate #719-2 bus until we find something better and then we can change.

Kindly let me know about this by return mail so I can get started at once for it takes a long time to get tests. (varies for each 50)

A. A.

[ITEM FOUND IN BOOK]

West Orange, N.J.
March 9, 09.

Mr Edison.
Dear Sir:-
The following tubes went up to Hooper. #1014A. Dup. of #9710 Except throw 30 on 190 mesh, and Lot 104 Stock 20A Tri flake.
Flake 42 Green 240 #1 Machine.
21% KOH + 2 gms LiOH. Run Regular.
37E dump wt 7.773
1015A. 240 " wt 7.805

1016A. Dup. of #9716 Except throw 30 on 190 mesh, and Lot 104 Stock 20A Tri flake.
Flake 42 Green 240 #1 Machine.
21% KOH + 2 gms LiOH. Run Regular.
264 dump wt 7.122
1017A. 263 " wt 7.132

1018A. Dup. of #9722 Except throw 30 on 190 mesh and Lot 104 Stock 20A Tri flake.

[ITEM FOUND IN BOOK]

2.

Flake 4.2 Green 23.9 #1 Machine.
2% KOH + 2. gms LiOH. Run Regular.
261 dump wt 7.196
~~[illegible]~~ #1019A. 260 " wt 7.219
1020A. Dup. of #9728 Except throw 30 pct. 190 mesh, and Lot 104 ~~Stock~~ 20 Mesh flake.
Flake 4.2 Green 23.9 #1 Machine.
2% KOH + 2. gms LiOH. Run Regular.
282 dump wt 7.750
1021A. 278 " wt 7.744

The following are some of the loading weights of Lobogasta greens that run below 7.000 gms per tube.

Rd #1182	Green 23.8	flake 4.2	dump 224	wt 6.069	
" " 1189	" 23.8	" 4.2	" 231	" 6.282	
" " 1191	" 23.7	" 4.2	" 243	" 6.370	
" " 1192	" 23.7	" 4.2	" 229	" 5.943	
" " 1194	" 23.8	" 4.2	" 253	" 6.640	
" " 1195	" 23.8	" 4.2	" 235	" 6.415	

[ITEM FOUND IN BOOK]

3.

RQ
1196 lbs Cyp for Screen 23.7 Flake 4.2 dumper 233 net 6.128
" 1198 " " 23.8 " 4.2 " 255 net 6.954
There are a couple of more to make up which I will send to-morrow.

Yours Respectfully
Hatten Wheeler

P.S. I told John Watt about fixing up the rolls so I could get rid of the fines through 19 mesh.

2/4/09.

Here are results on two, similar, old-loaded cells, — one having 100 grams of $SiOH$ in the 21% HOH, and the other having the regular 120 grams.

Cells were run like #404, results of which I have sent you, — that is, they were given three overcharge runs and then run on commercial charges, as if in service.

RUN	CHARGE	DISCHG.	#467 To 1V.	#467 To .50	#466 To 1V.	#466 To .50	
—	—	—					
			100 g.	$SiOH$	120 g.	$SiOH$	in 21% HOH.
1	48 hrs. @ 15	Oct 30	222.5	234	215	231.5	Cells contain:
2	15 hrs. @ 30	"	180.5	190	165	194.5	735 $Ni(OH)_2$ 164 7 lake
	Allowed to stand 46 hours						
3	15 hrs. @ 30	Oct. 30	178	191.5	165	196.7	I think these results
	Allowed to stand 36 hours						give evidence that it
4	7 hrs. @ 30	Oct 30	152.5	—	150	—	is advisable to use
5	"	"	161.5	—	160.7	—	less $SiOH$. The 120-
6	"	"	162.5	—	162.5	—	gram cell has more
7	"	"	164.2	—	163.5	—	reserve capacity
8	"	"	164	—	161.2	—	below 1V. and event-
9	"	"	167	—	166.	—	ually it will prob-
10	"	"	168	—	166.5	—	ably have a capac-
11	"	"	166.2	—	166	—	ity to 1V. 10 ampere-
12	"	"	167.7	—	167.5	—	hours or so better
13	"	"	169.2	—	169.3	—	than the 100-gram
14	"	"	168.	—	168	—	cell; but these ad-
15	"	"	169.5	182.	170.	198.5	vantages are slight
16	15 hrs. @ 30	"	173.5	204.5	196	213.7	compared with the
17	7 hrs. @ 30	"	163.7	—	168.2	—	better durability
18	"	"	171.2	—	175.8	—	which, I believe, the
19	"	"	172.5	—	175.5	—	100-gram cell will
20	"	"	172	—	175	—	have.

W. E. H.

[ITEM FOUND IN BOOK]

March 4, 1909.

Mr. Edison:

Below are the first three runs of three cells containing the new-loaded tubes. These cells contain different amounts of SiOH in 21% KOH, but this makes little difference in their capacities at the start. It is the same with the old cells. These new cells, however, are starting out a little lower than the average cell of the old loading. I did not have any old cells of the same Flake and Hydrate which is in these, and that may account for the difference. Anyway it is the ultimate and not the first capacity which counts.

New-loaded cells #478, 479, + 480, contain:

#478 – 739 $Ni(OH)_2$, 28 Zn + 203 Cd Flake, 90 grams SiOH

479 – " " 105 grams SiOH

480 – " " 120 grams SiOH

RUN	CHARGE	DISCHG.	#478 To 1V.	#478 To .50	#479 To 1V.	#479 To .50	#480 To 1V.	#480 To .50
1	48 hrs. @ .15	Oct. 30	210.7	220.7	207	221.2	202.5	219.7
2	15 hrs. @ .30	"	178.5	187.2	168.5	185.7	169.2	185.2
3	"	"	173.5	183.7	165	183.7	170	185.5

Walter E. Holland

March 6, 1909.

Mr. Edison:

On December 4th we put six "A4" cells in series, in a Fonograf-Co. truck — as you will remember. A few days ago they completed 1000 miles (taking 12 weeks time), and I had them taken out for test. Here are the results on the last run before, and on four runs after, the series in truck:

Run	Charge	Dis.	#231	#232	#376	#380	#387	#390
Before	15 hrs.@30	01 30	203	209.5	196	207.5	212.5	207.5
	On truck 12 weeks; ran 1000 miles							
After	15 hrs.@30	01 30	228.5	231.5	229.5	231	237.5	232
"	"	"	192.5	194.5	197.5	198	204.5	208
"	"	"	195	197	199	202	206	210
"	"	"	192.7	194	197.5	201.5	205	210.5

Cells #231 + 232 contain #728 $Ni(OH)_2$ and #247 flake
Others contain #731 $Ni(OH)_2$ and 19 + 29 flake.

These cells were used in the beginning for various experiments as to forming. They were variously treated as follows:

#231 + 232.

Originally in 21 % KOH + 15 g. SiOH per cell. After 3 runs, saturated SiOH solution was put in. Cells were run 28 times in this and 21 % KOH was then substituted. Cells had altogether 44 runs before being put in truck.

#376.

Original electrolyte — 21 % KOH + 120 g. SiOH. Had 20 overcharge runs during which new electrolyte of 21 % KOH was put in.

*380.

Electrolyte – 21 g. KOH + 120 g. SiO_2. Had 16 normal overcharge runs and was reversed once at 15 amperes for 30 hours. Solution has never been changed.

*387.

Electrolyte – 21 g. KOH + 120 g. SiO_2. Had 15 normal overcharge runs. Solution has never been changed.

*390.

Original electrolyte – 21 g. KOH + 60 g. SiO_2. Had 19 normal overcharge runs during which the solution was changed three times – fresh electrolyte of the same kind being put in each time.

Have got two more runs on the new-loaded cells. They are now on their upward course. Here are all the runs:

RUN	CHARGE	DIS.	*478 To 1V.	*478 To 5V.	*479 To 1V.	*479 To 5V.	*480 To 1V.	*480 To 5V.
			90 g. SiO_2		105 g. SiO_2		120 g. SiO_2	
1	48 hrs. @ 15	Off 30	210.7	220.7	209	221.2	202.5	219.7
2	15 hrs. @ 30	"	178.5	187.2	168.5	185.7	169.2	185.2
3	"	"	173.5	183.7	165	183.7	170	185.5
4	"	"	178.5	189	170	190.5	175	192.2
5	"	"	178.5	190	173.5	191	178.5	196.5

Walter E. Holland

March 10, 1909.

Mr. Edison:

Here are the runs to date of the three new-backed cells:

Run	Charge	Discharge	#478 To 1V.	#478 To .50	#479 To 1V.	#479 To .50	#480 To 1V.	#480 To .50
			90 g. Si04		105 g. Si04		120 g. Si04	
1	48 hrs. @ 15	Ot 30	210.7	220.7	207	221.2	202.5	219.7
2	15 hrs. @ 30	"	178.5	187.2	168.5	185.7	169.2	185.2
3	"	"	173.5	183.7	165	183.7	170	185.5
4	"	"	178.5	189	170	190.5	175	192.2
5	"	"	178.5	190	172.5	191	178.5	196.5
	Allowed cells to stand 5½ hours.							
6	15 hrs. @ 30	Ot 30	187.2	200	180	202	183	204.2
7	"	"	182	191.2	178.2	194.3	182.5	199
8	"	"	181	190	174.5	193	182.7	199.2

The two-day rest did not seem to help them much. Shall try them on short charge now.

We now have six more of the new cells; will send results on them as soon as I can get results.

We had a little cold weather last week and I got several cold tests on A4 cells. A cold discharge affects the output very considerably, while a cold charge (down to 40° F.) is not at all bad. I have curves on this which you can see when you return.

Walter E. Holland

[ITEM FOUND IN BOOK]

March 16, 1909.

Mr. Edison:

I think it would be well to try the effect of various catalytic substances on the charging-curve of iron as you suggest, but I do not think we should put the 7 cells up with Bismuth-Nickel tubes: that would be introducing too many unknown factors. Moreover, I don't see why we shouldn't eliminate the Nickel factor altogether: it can be done, as I have demonstrated, by assembling the 7 cells with inactive electrodes of pure nickel and using an external source of current to both charge and discharge. The volt-readings on discharge of course are negative, but they are constant; and the method gives the true and unadulterated curve of the iron both on charge and on discharge.

If you think favorably of this plan I will have the cells made up and you can send the list of chemicals at your convenience.

Respectfully yours

Walter S. Holland

[ITEM FOUND IN BOOK]

March 17, 1909.

Mr. Edison:

I gave 3 of the new-loaded cells the treatment with 8 g. KOH + 120 g. Li_2OH, - changed to 25 g. KOH after 3 runs; but this time I varied the treatment a little and discharged at 60 amperes on the 2nd and 3rd runs. You will note that the output at this high rate is very low; but it heats the cells, with resultant benefit. These are better on the 5th run than old-loaded cells treated in the same way (except in the matter mentioned of high rate discharge).

RUN	CHARGE	DISCHG	#481 To 1V.	#481 To .50	#482 To 1V.	#482 To .50	#483 To 1V.	#483 To .50
	Original Electrolyte - 8 g. KOH + 120 g. Li_2OH.							
1	48 hrs. @ 15	At 30	140	169	147	175.7	151.7	180.2
2	15 hrs. @ 30	At 60	—	96	—	98.5	—	120
3	"	"	—	44.5	—	47.5	—	99
	Set stand 32 hours; then put in 25 g. KOH							
4	15 hrs. @ 30	At 30	166.5	189.7	168	190	168	186.7
5	"	"	170.5	190.7	172	191.2	172	189

The 3 original new-loaded cells I have been giving commercial runs, to form them; and they show up very well on these runs. They are running in series, and as we have no convenient way to cut them out at 1V., they get completely discharged each time, - therefore the efficiency should be figured from the results to .50V.

Following are the results:

(2) 3/17/09.

Run	Charge	Disch.	#478 To 1V.	#478 To 50	#479 To 1V.	#479 To 50	#480 To 1V.	#480 To 50	
			90 g.		105 g.		120 g.		= SiO4 in 21 g. KOH.
9	7 hrs. @ 30	Ot 30	160.2	165.7	161.2	169.2	165.2	175.7	Runs #1-8 were
10	"	"	161.7	166.5	163.2	171.5	166.5	176.5	overcharge tests.
11	"	"	161.2	165.5	161.7	171	166.7	174.7	I sent them to you
12	"	"	160	166	162.5	171.5	165	178.5	last week.
13	"	Ot 60	137	165	130	172.5	131.5	180	
14	"	"	136.5	164	130	168	130	178	
15	"	"	136.5	164	126	169	128	177	
16	"	"	140	167	133	173	134	180	
17	"	Ot 30	162	167.5	163	172.5	167	180.5	
18	"	"	161	165	162	170	165	178.7	

A4 Cell #404 (old-loaded), has been run under approximately commercial conditions for a long time, to find the rate of improvement. Here is a condensation of the results:

Charge and discharge rate: 30 amperes.

Runs #1-3	Overcharge tests			3rd run	= 167.5 to 1V.
" 4-15	7	hour charges		Average	164.2 "
" 16	15	hour charge		—	189 "
" 17	"	"		—	192 "
" 18-29	7	hour charges		Average	171.9 "
" 30	15	hour charge		—	199.7 "
" 31-42	7	hour charges		Average	174.6 "
" 43	15	hour charge		—	205 "
" 44-45	7	hour charges		Average	178.8 "

The electrolyte is 21 g. KOH + 120 g. SiO4.

W.E.H.

March 24, 1909.

Mr. Edison:

A4 cells #478 – 480 (new-loaded) we gave 16 commercial runs after the first overcharge runs, – here are the results on overcharge after these commercial runs:

RUN	CHARGE	DIS.	#478 TO 1.V.	#478 TO 1.60	#479 TO 1.V.	#479 TO 1.60	#480 TO 1.V.	#480 TO 1.60
25	15 hrs. @ 30	Oct 30	204.2	212	200	217.5	201.5	222
26	"	"	198.5	209.5	194.7	214.7	200	220

As you know, #478 has 90 g. LiOH, #479 has 105 g., and #480 has 120 g. – in 21 % KOH.

Here are results on new A4 cells #484 – 486, which contain #739 $Ni(OH)_2$, 25 Zn + 203 Bi ∓ lake, and are filled with 21 % KOH + 120 g. LiOH, –

RUN	CHARGE	DIS.	#484 TO 1.V.	#484 TO 1.60	#485 TO 1.V.	#485 TO 1.60	#486 TO 1.V.	#486 TO 1.60
1	48 hrs. @ 15	Oct 30	200	219	201.7	220.2	200	219.7
	Allowed to stand				24 hours.			
2	15 hrs. @ 30	Oct 60	114	192	120	193	120	190.7
	Allowed to stand				12 hours			
3	15 hrs. @ 30	Oct 60	110	191.5	114	192.5	110.5	191.5
	Allowed to stand				64 hours.			
4	15 hrs. @ 30	Oct 30	175	204.7	177.5	206.7	177.5	202.5
5	"	"	173.5	199	175	198.5	173.5	194.5

Results on new A4 cells #487 – 489.

RUN	CHARGE	DIS.	#487 TO 1.V.	#487 TO 1.60	#488 TO 1.V.	#488 TO 1.60	#489 TO 1.V.	#489 TO 1.60	
1	48 hrs. @ 15	Oct 30	193	227.7	193	212.2	193	212.7	These cells are
	Allowed to stand				24 hours				exactly same
2	15 hrs. @ 30	Oct 60	111	194.5	111	192	111	194.5	as #484-486 a-
	Allowed to stand				12 hours				bove except that
3	15 hrs. @ 30	Oct 60	110	185	111	184.7	111	184.7	they contain
	Allowed to stand				64 hours				∓ O ∓ lake.
4	15 hrs. @ 30	Oct 30	170	198.2	170	196	172.5	197.5	W.E.M.
5	"	"	169	190	168.5	189.5	170	199	

[ITEM FOUND IN BOOK]

Long Tubes - (32)

Coll	H.R.	H.R @ 250	1	2	3	
10262	350	1000	1838	1754	1688 - 2067	
10263		950	1904	1854	1792 - 2121	
* 10264		858	1679	1675	1608 - 2004	split.
10277		842	1958	1913	1842 2163	
10278		808	1675	1808	1763 - 2146	
10279		771	1704	1675	1617 - 1971	
10280		875	1771	1750	1708 - 2071	
10281		867	1779	1750	1688 - 2017	
10282		780	1658	1654	1583 - 1842	
10286	200	729	1675	1633	1558 - 1850	
10287		761	1721	1708	1692 - 1992	
10288		742	1742	1738	1696 - 1942	
10308	150	688	1867	1863	1833 - 1938	
10309		688	1604	1768	1758 - 1888	
10310		683	1375	1733	1813 - 2004	
10311		638	1825	1829	1808 - 1892	
10312		688	1771	1771	1738 - 1833	
10313		617	1783	1792	1742 - 1854	
10340	46	504	1638	1763	1742 - 1783	
10341		396	1704	1825	1758 - 1846	

MAR 25 1909 MAR 27 1909

MAR 26 1909

[ITEM FOUND IN BOOK]

Mr. Edison:

New-loaded A4 cells #484-489, we gave five regular forming-runs at the start, then twelve commercial runs, = charging 7 hrs. at 20 amps. and discharging at 40 amps. Here are results on two overcharge runs made after the commercial runs:

Cell #484	Run #18 – 189 to 1V., 208 to .50	Run #19 – 188.5 to 1V., 206.5 to .50V.
" 485	" 189 " 205.5 "	" 190 " 204.5 "
" 486	" 188.5 " 203 "	" 189 " 203 "
" 487	" 183 " 198.5 "	" 184 " 198.2 "
" 488	" 180 " 195 "	" 180 " 195.5 "
" 489	" 183 " 198.2 "	" 184 " 198.2 "

#484-486 have #739 $Ni(OH)_2$ and #28 Ni + 203 Bi ⊤ holes

#487-489 " " " " " #9 ⊤ holes

Electrolyte in all is 21 oz. KOH + 120 g. LiOH.

New-loaded A4 cells #481-483, containing #739 $Ni(OH)_2$ and #28 Ni + 203 Bi ⊤ holes, had an electrolyte of 8 oz. KOH + 120 g. LiOH for 3 runs, and then were filled with 25 oz. KOH. They then had 3 more overcharge runs and 18 commercial runs, after which their capacity on overcharge was as follows:

Cell #481	Run #25 – 189.2 to 1V., 205 to .50V.	Run #26 – 192.2 to 1V., 205.5 to .50V.
" 482	" 190 " 206.2 "	" 193.2 " 207.5 "
" 483	" 188.5 " 203.5 "	" 191.5 " 204 "

(2)

Here are summaries of tests on some old A4 cells which had no forming treatment, but were simply given runs under commercial conditions, (approximately), with an over-charge every 12 runs:

A4 #466 + 467

#466 - Electrolyte: 21 % KOH + 120 g. SiO_2.

#467 - " " " 100 g. SiO_2.

Both contain #735 $Ni(OH)_2$ and #16A Ni lake

Runs	Charge	Dischg.	#466	#467	Remarks
#3	15 hrs. @ 30	Ot 30	165.0 to 1V.	179.0 to 1V.	
4-15	7 hrs. @ 30	"	165.4 "	166.1 "	Average (12 runs)
16	15 hrs. @ 30	"	194.0 "	193.5 "	
17-28	7 hrs. @ 30	"	175.3 "	171.9 "	Average
29	15 hrs. @ 30	"	206.7 "	203.5 "	
30-41	7 hrs. @ 30	"	177.5 "	174.0 "	Average
42	15 hrs. @ 30	"	211.2 "	206.0 "	

A4 #468.

Electrolyte: 8 % KOH + 120 g. SiO_2 for 3 runs, then 25 % KOH. #735 $Ni(OH)_2$ and #16A Ni lake.

Runs	Charge	Dischg.	#468	Remarks
#5	15 hrs. @ 30	Ot 30	171.0 to 1V.	
6-17	7 hrs. @ 30	"	165.4 "	Average
18	15 hrs. @ 30	"	192.5 "	
19-30	7 hrs. @ 30	"	170.2 "	Average
31	15 hrs. @ 30	"	202.5 "	
32-43	7 hrs. @ 30	"	171.3 "	Average
44	15 hrs. @ 30	"	201.5 "	

[ITEM FOUND IN BOOK]

Just before you went away, you told me about running some hot-discharge experiments, on small cells which had lost capacity. We have now finisht the tests, - here are the results:

T.A.E. Tube Cells #158, 161, + 164.

Electrolyte: 21 g. KOH + 2 g. SiO_2H_2

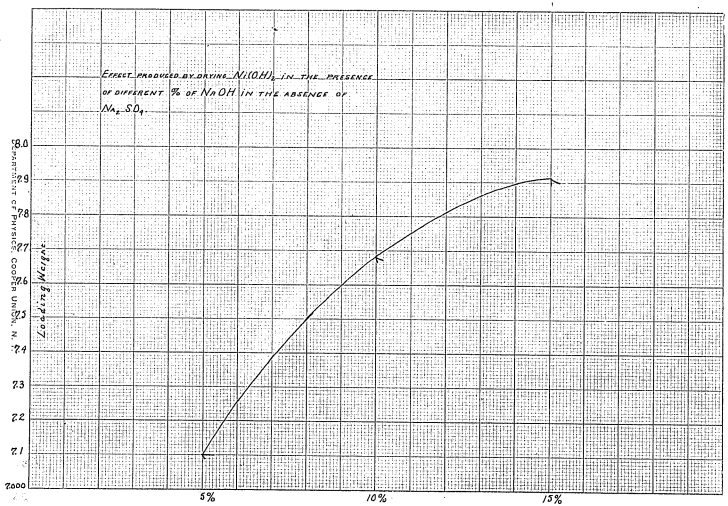
Run	Charge	Dischg.	Dischg. Temp.	#158	#161	#164	
166	15 hrs. @ 300	Off 200	Norm. (75°)	920	903	1013	
167-170	" "	"	130° F.	1219	1190	1347	Average
171-175	30 hrs. @ 150	"	"	1351	1300	1383	"
176-178	" "	"	115° F.	1233	1183	1307	"
179-181	" "	"	100° F.	1110	1053	1203	"
182-183	" "	"	Norm. (75°)	933	927	1000	"
184-186	15 hrs. @ 300	"	"	927	920	990	"

I have been doing considerable work for the Primary Battery Company. Am designing a new cell which ought to be a winner. It will have two zinc plates and three oxides, with potash or silicate electrolyte. The internal resistance will be half that of the present cell, and the amount of zinc surface, which the electrolyte can act on, will be double.

Walter E. Holland

April 3, 1909.

[ITEM FOUND IN BOOK]



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END

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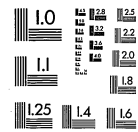

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